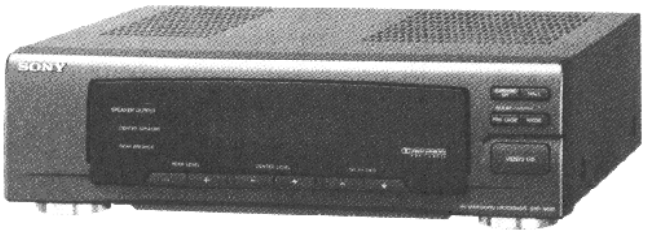
SDP-N600

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model



SDP-N600 is the Surround processor section in LBT-N650AV.

SPECIFICATIONS

DIN power output
- CENTER: 20 W (8 ohms, at 1 kHz)
- REAR: 20 W + 20 W (8 ohms, at 1 kHz)

Continuous RMS power output
- CENTER: 23 W (8 ohms, at 1 kHz, 5% THD)
- REAR: 23 W + 23 W (8 ohms, at 1 kHz, 5% THD)

Music power output
- CENTER: 28 W (8 ohms, at 1 kHz, 10% THD)
- REAR: 28 W + 28 W (8 ohms, at 1 kHz, 10% THD)

Audio input	Jack type	Sensitivity	Impedance
VIDEO 1	Phono	435 (245) mV	47 kilohms
VIDEO 2	Phono	435 (245) mV	47 kilohms

( ) : E, Australian model

Audio output	Jack type	Voltage	Impedance
VIDEO 1	Phono	235 (245) mV	2 kilohms
VIDEO 2	Phono	235 (245) mV	2 kilohms
CENTER OUT	Phono		1 kilohms

( ) : E, Australian model

Video input (phono jacks)
- VIDEO 1, VIDEO 2: 1 Vp-p, 75 ohm unbalanced, sync negative

Video output (phono jacks)
- VIDEO 1: 1 Vp-p, 75 ohm unbalanced, sync negative
- VIDEO 2: 1 Vp-p, 75 ohm unbalanced, sync negative
- MONITOR: 1 Vp-p, 75 ohm unbalanced, sync negative

Power requirements
- AEP, UK, East European, CIS model : 220-230 V AC, 50/60 Hz
- Australian model: 220-240 V AC, 50/60 Hz
- Other model: 110-120 V or 220 V-240 V AC adjustable, 50/60 Hz

Power consumption 63 W

Mass Approx. 4.6 kg

Dimensions: Approx. 355 x 105 x 320 mm (w/h/d, including projections)

— Continued on next page —

MICROFILM

SURROUND PROCESSOR

SONY®

SERVICE NOTE

How to confirm the operation with a single unit

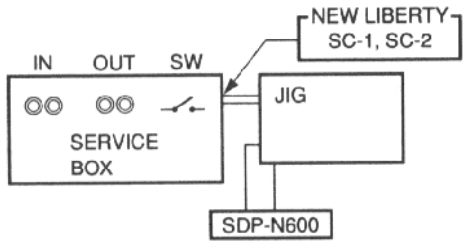
- Normally, this set does not operate with a single unit.
  The exclusive jig (J-2501-081-A) is necessary to operate the set with a single unit.
  The cable attached to set is used for connecting with the jig.

How to turn the power on

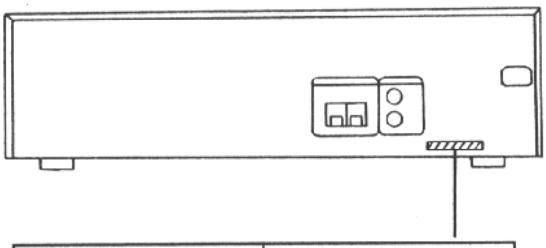
- If the power switch of the service box is set to ON, the power supply of the set is turned on. The sound signal is input/output through CN102 (SYSTEM CONTROL 4). In case of using the input/output terminal of SERVICE BOX, press [VIDEO 1/2] key and [SURROUND OFF] key for more than three seconds at once.
- When using the input/output terminals of VIDEO 1 and VIDEO 2 on the unit, press [VIDEO 1/2] key to switch.

All light up of FL tube

When [REAR LEVEL +] key and [HALL] key are pressed for more than three seconds then press a key, all FL tubes are lit.
After that the display will be changed as KEY 0 to KEY 11 at every pressing keys (eleven times). (The display will not be changed by pressing the same key.) Press a key again to release.



MODEL IDENTIFICATION
— BACK PANEL —



	Parts No.
AEP Model	4-971-125-0□
UK Model	4-971-125-1□
EE, CIS Model	4-971-125-2□
E Model	4-971-125-3□
AUS Model	4-971-125-4□

- Abbreviation
  EE : East European model.
  AUS : Australian model.

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	• IC601 TMP87C814N Display Control	28
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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

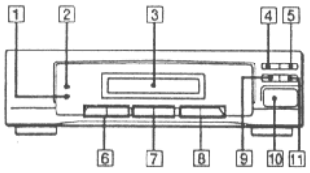
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

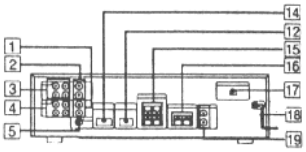
This section is extracted from Instruction manual.

Front Panel



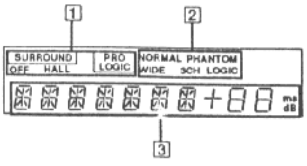
1 REAR SPEAKER indication (22)
2 CENTER SPEAKER indication (22)
3 Display window
4 SURROUND OFF button (22)
5 HALL button (22)
6 REAR LEVEL (+/–) buttons (22)
7 CENTER LEVEL (+/–) buttons (22)
8 DELAY TIME (+/–) buttons (22)
9 DOLBY PRO-LOGIC button (22)
10 VIDEO 1/2 button (21, 25)
11 DOLBY MODE button (22)

Rear Panel



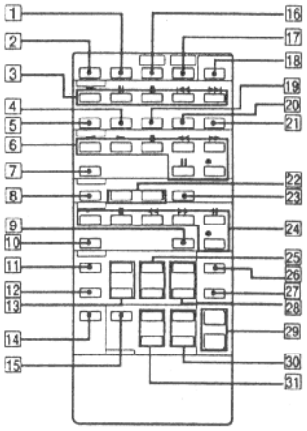
1 VIDEO 2 VIDEO IN/OUT jacks (21)
2 VIDEO 1 VIDEO IN/OUT jacks (21)
3 VIDEO 1 AUDIO IN/OUT jacks (21)
4 VIDEO 2 AUDIO IN/OUT jacks (21)
5 MONITOR VIDEO OUT (21)
12 SYSTEM CONTROL 4 terminals (5)
14 SYSTEM CONTROL 3 terminals (5)
15 REAR SPEAKER connectors (4)
16 CENTER SPEAKER connectors (4)
17 VOLTAGE SELECTOR (except for E model) (5)
18 AC power cord (6)
19 CENTER OUT jacks (21)

Display Window



1 Surround mode (SURROUND/OFF/HALL/PRO LOGIC) indications (22)
2 Dolby Pro-Logic mode (NORMAL/PHANTOM/WIDE/3CH LOGIC) indications (22)
3 Function indications (21)

Remote (RM-S600L)



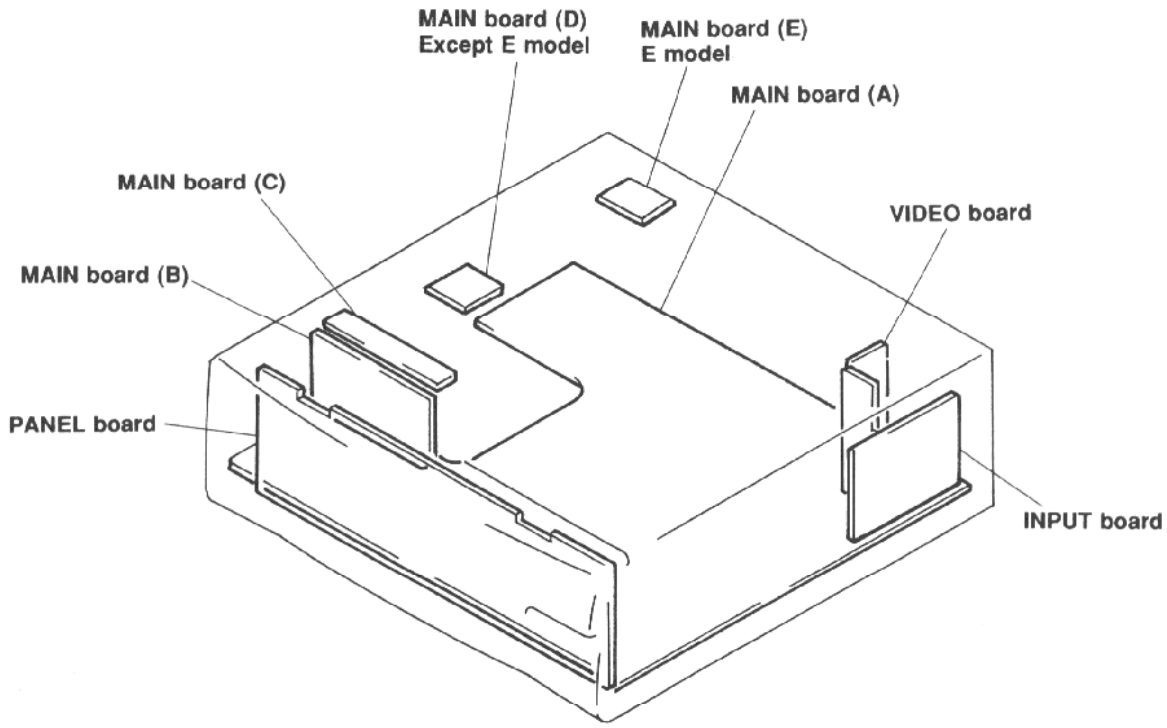
1 SLEEP button (23)
2 FUNCTION button (14, 17, 21, 25)
3 CD operating buttons (7, 8)
► (play)
⏮ /⏭ (AMS*)
⏸ (pause)
■ (stop)
*AMS: Automatic Music Sensor
4 CLEAR button (8)
5 CHECK button (8, 15)
6 TAPE operating buttons (12)
◄/► (reverse side play/front side play)
◄◄/►► (fast leftward/fast rightward)
■ (stop)
⏸ (pause)
● REC
7 DECK SELECT A/B selector (12)
8 TUNER BAND button (10, 24)
9 ANT TV/VTR button*
10 VTR 2/3 selector (21)
11 TEST TONE button (22)
12 SURROUND MODE button (22)
13 REAR LEVEL buttons (22)
14 VIDEO 1/2 button (21, 25)
15 TV/VIDEO button*
16 VTR POWER button**
17 TV POWER button*
18 SYSTEM POWER button (7, 10, 12)
19 EDIT button (14, 15)
20 REPEAT button (9)
21 DISC SKIP button (7)
22 PRESET (+/–) buttons (11)
23 STEREO/MONO button (10)
24 VTR operating buttons**
► (play)
◄◄/►► (fast leftward/fast rightward)
■ (stop)
⏸ (pause)
● REC
25 CENTER LEVEL buttons (22)
26 SELECT 1-5 button (18, 19)
27 P.FILE 1-5 button (18, 19)
28 DELAY TIME buttons (22)
29 MASTER VOL (Volume) buttons (7, 18, 22)

30 CHANNEL buttons*
31 VOLUME buttons*

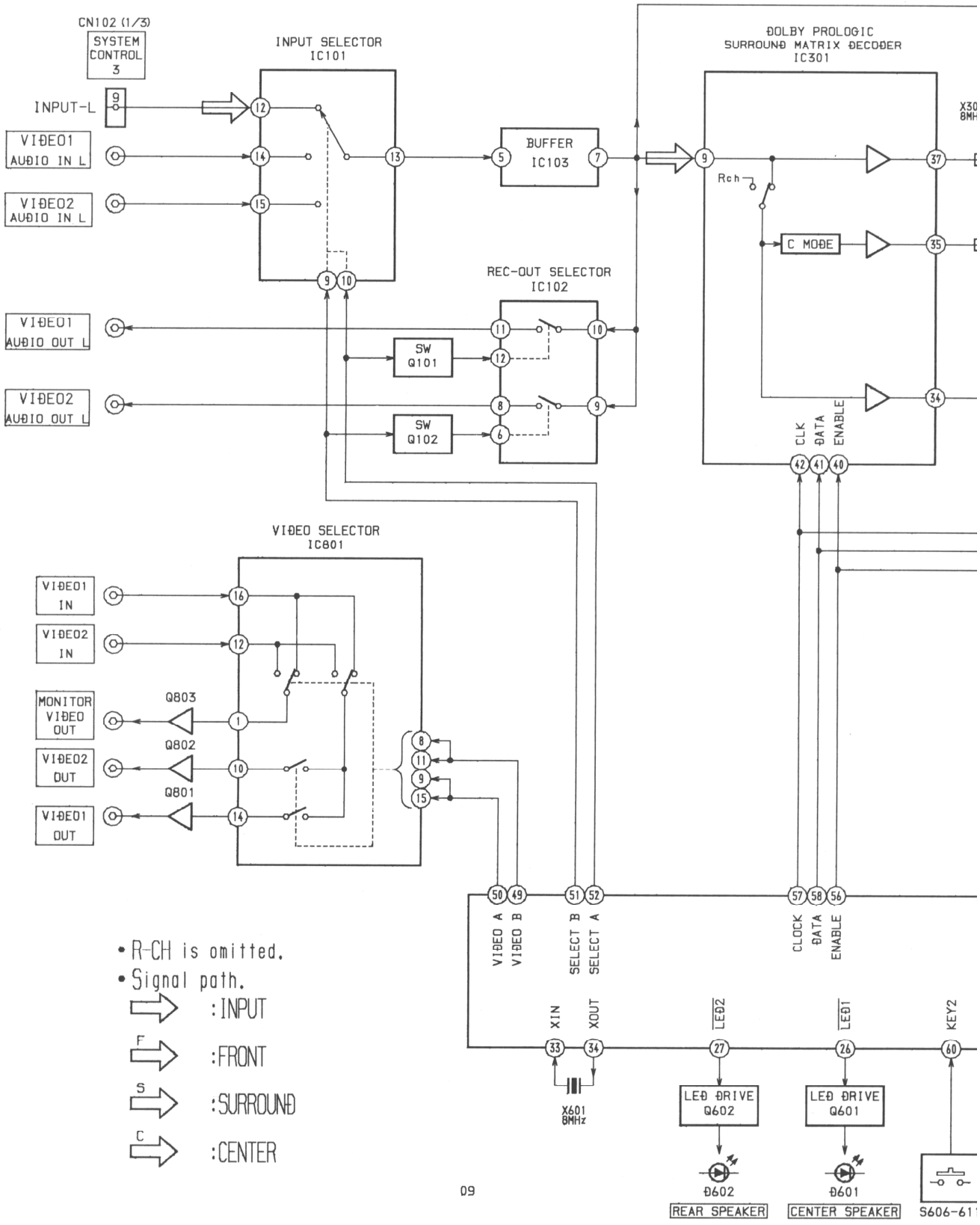
* For use with Sony TVs
** For use with Sony VCRs

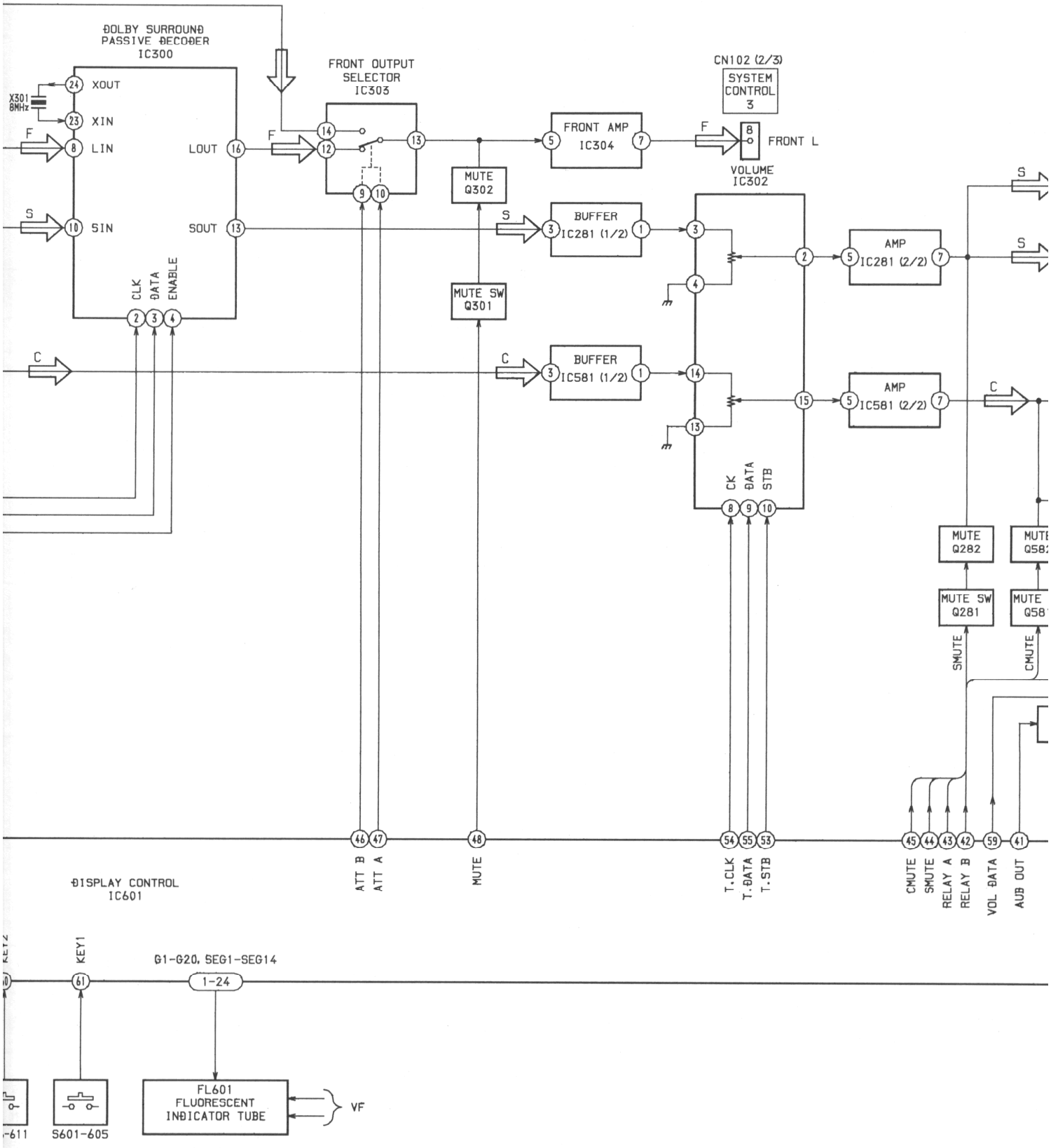
SECTION 2
DIAGRAMS

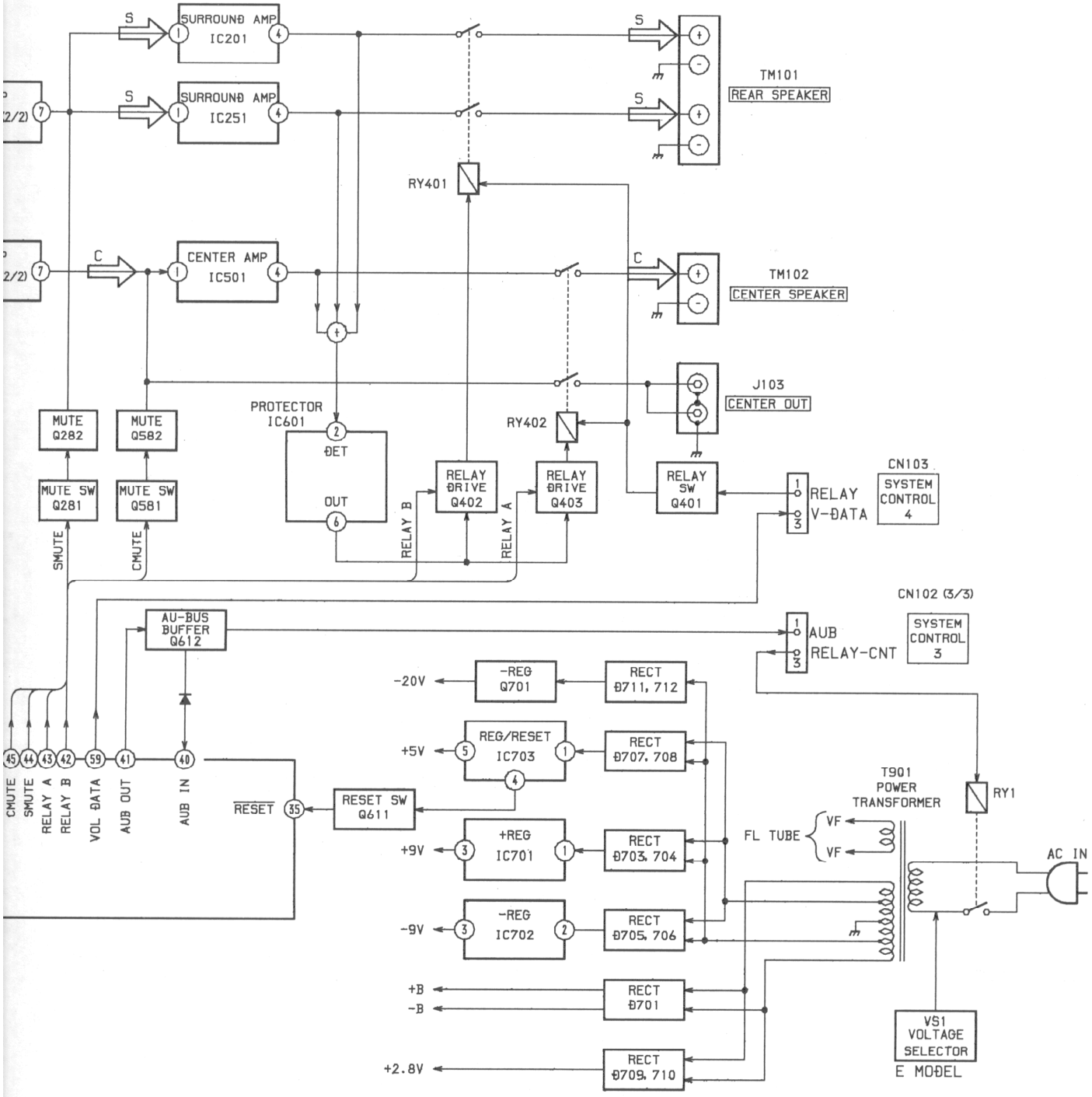
2-1. CIRCUIT BOARDS LOCATION



2-2. BLOCK DIAGRAM




DOLBY SURROUND
PASSIVE DECODER
IC300
XOUT
X301
8MHz
XIN
LIN
LOUT
SIN
SOUT
CLK
DATA
ENABLE
FRONT OUTPUT
SELECTOR
IC303
MUTE
Q302
MUTE SW
Q301
FRONT AMP
IC304
CN102 (2/3)
SYSTEM
CONTROL
3
FRONT L
VOLUME
IC302
BUFFER
IC281 (1/2)
BUFFER
IC581 (1/2)
AMP
IC281 (2/2)
AMP
IC581 (2/2)
CK
DATA
STB
MUTE
Q282
MUTE SW
Q281
SMUTE
CMUTE
DISPLAY CONTROL
IC601
ATT B
ATT A
MUTE
T.CLK
T.DATA
T.STB
CMUTE
SMUTE
RELAY A
RELAY B
VOL DATA
AUB OUT
KEY1
G1-G20, SEG1-SEG14
1-24
FL601
FLUORESCENT
INDICATOR TUBE
VF
S601-605


S
SURROUND AMP
IC201
SURROUND AMP
IC251
TM101
REAR SPEAKER
RY401
C
CENTER AMP
IC501
TM102
CENTER SPEAKER
J103
CENTER OUT
PROTECTOR
IC601
DET
OUT
RY402
MUTE
Q282
MUTE
Q582
MUTE SW
Q281
MUTE SW
Q581
SMUTE
CMUTE
RELAY B
RELAY A
RELAY
DRIVE
Q402
RELAY
DRIVE
Q403
RELAY
SW
Q401
RELAY
V-DATA
CN103
SYSTEM
CONTROL
4
CN102 (3/3)
AU-BUS
BUFFER
Q612
AUB
RELAY-CNT
SYSTEM
CONTROL
3
-20V
-REG
Q701
RECT
D711, 712
+5V
REG/RESET
IC703
RECT
D707, 708
RESET SW
Q611
+9V
+REG
IC701
RECT
D703, 704
-9V
-REG
IC702
RECT
D705, 706
+B
-B
RECT
D701
+2.8V
RECT
D709, 710
T901
POWER
TRANSFORMER
RY1
FL TUBE
VF
VF
AC IN
VS1
VOLTAGE
SELECTOR
E MODEL
CMUTE
SMUTE
RELAY A
RELAY B
VOL DATA
AUB OUT
AUB IN
RESET

2-3. PRINTED WIRING BOARD — MAIN SECTION —

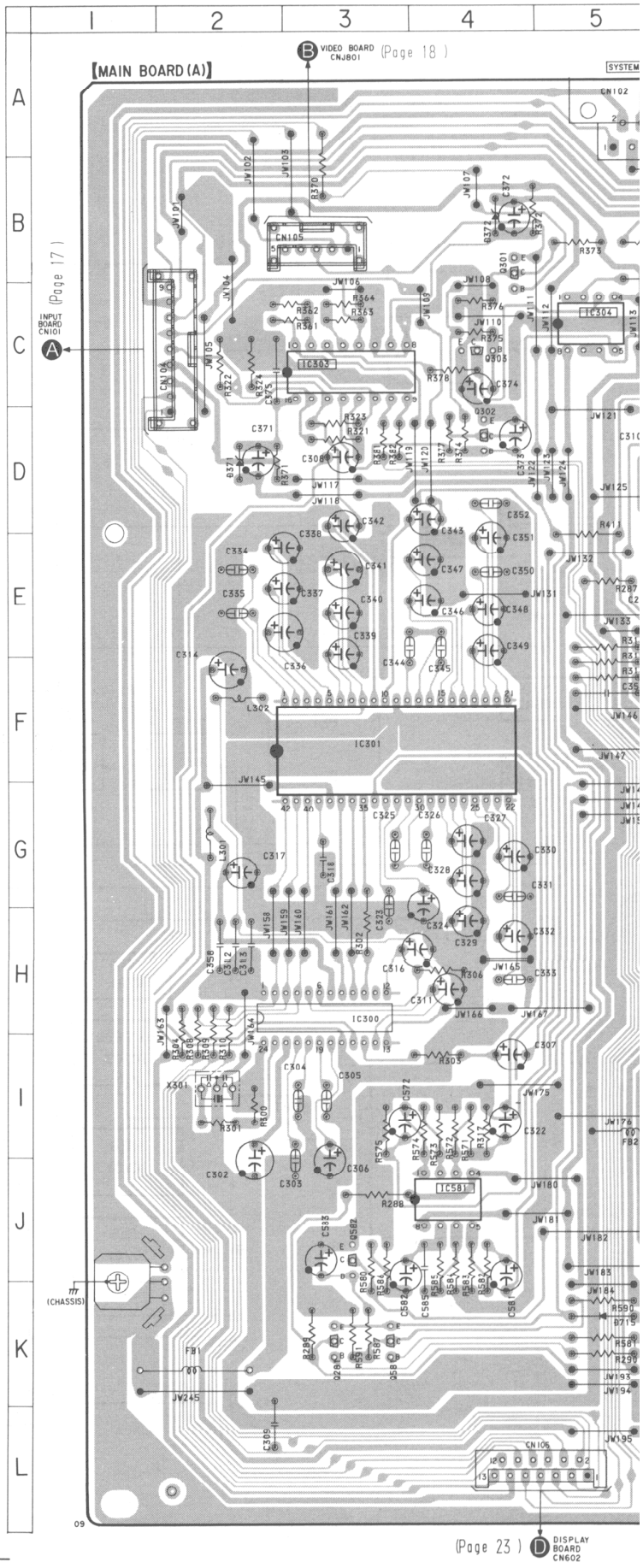
• See page 4 for Circuit Boards Location.

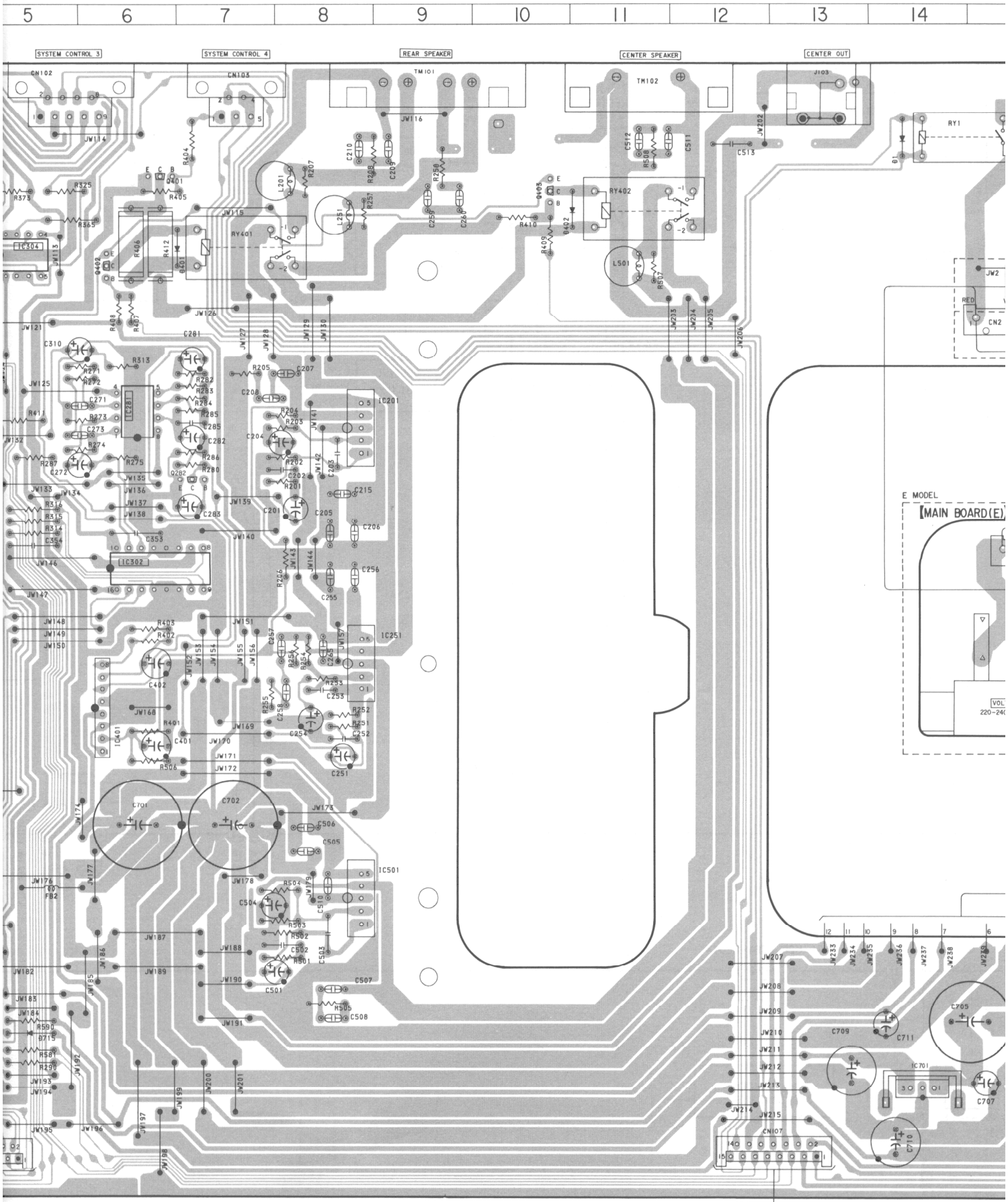
• **Semiconductor Location**

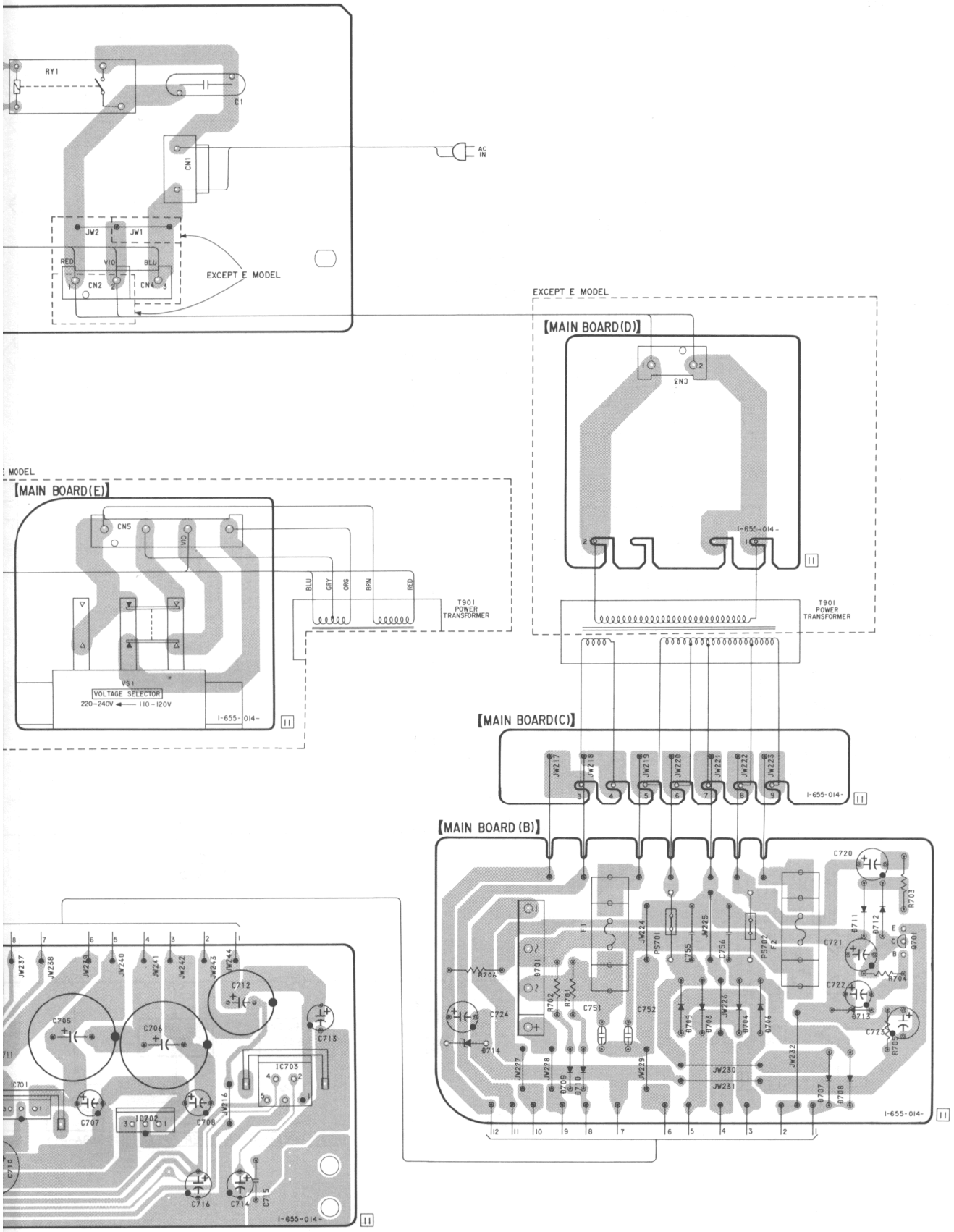
Ref. No.	Location
D1	B-14
D371	D-2
D372	B-4
D401	C-6
D402	B-10
D701	J-19
D703	J-20
D704	J-21
D705	J-20
D706	J-21
D707	K-22
D708	K-22
D709	K-19
D710	K-19
D711	I-22
D712	I-22
D713	J-22
D714	K-18
D715	K-5
IC201	E-8
IC251	G-8
IC281	E-6
IC300	H-3
IC301	F-3
IC302	F-6
IC303	C-3
IC304	C-5
IC401	H-6
IC501	J-8
IC581	J-4
IC701	K-14
IC702	K-15
IC703	K-16
Q281	K-3
Q282	E-7
Q301	C-4
Q302	D-4
Q303	C-4
Q401	B-6
Q402	C-6
Q403	B-10
Q581	K-3
Q582	J-3
Q701	J-22

Note:

- o—— : parts extracted from the component side.
- △ : internal component.
- ▬ : Pattern from the side which enable seeing.

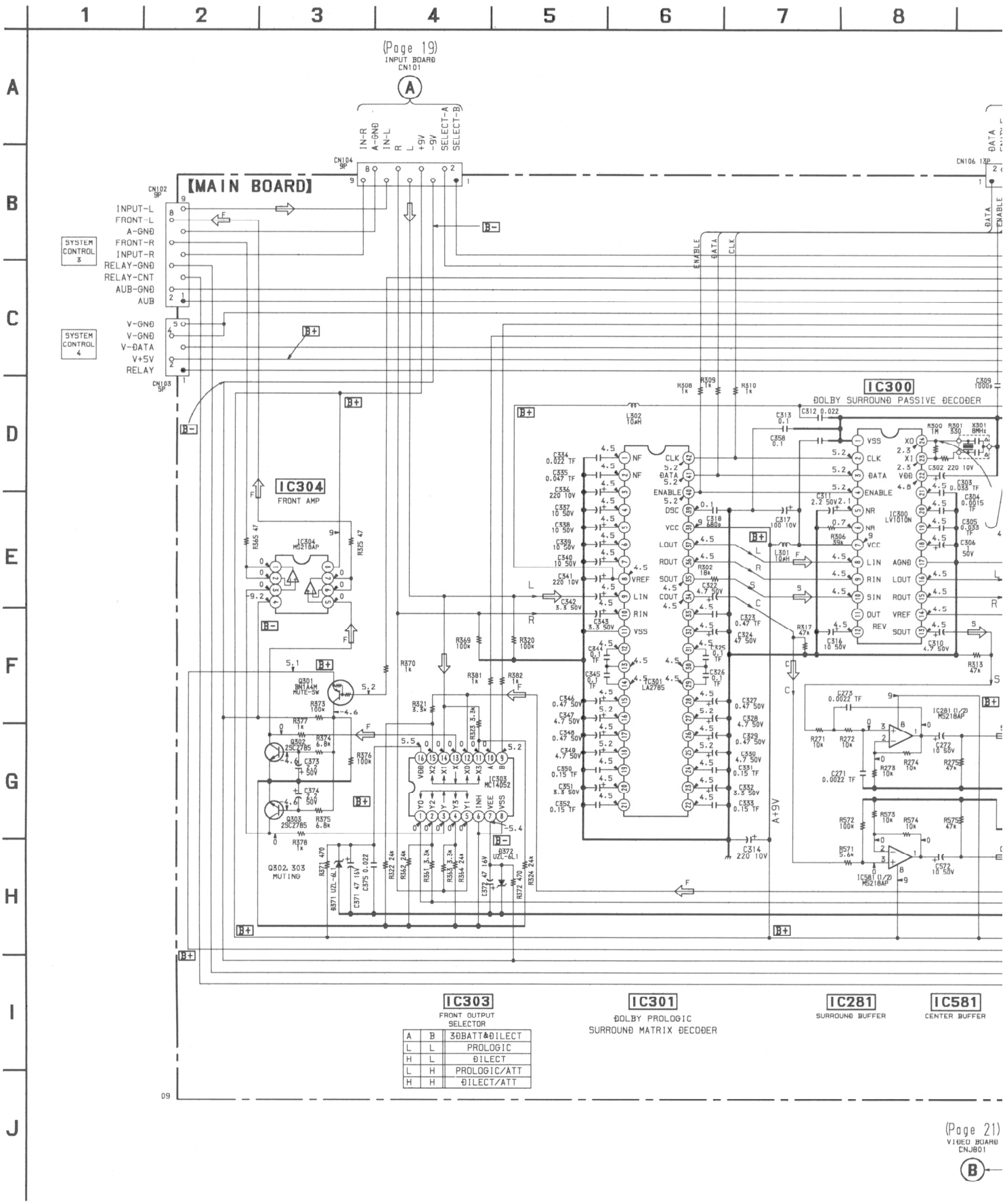



5
6
7
8
9
10
11
12
13
14
SYSTEM CONTROL 3
SYSTEM CONTROL 4
REAR SPEAKER
CENTER SPEAKER
CENTER OUT
CN102
CN103
TM101
TM102
J103
RY1
RY401
RY402
IC304
IC281
IC302
IC201
IC251
IC501
IC701
IC401
L201
L251
LS01
E MODEL
【MAIN BOARD(E)
CN107
(Page 24) DISPLAY BOARD CN601

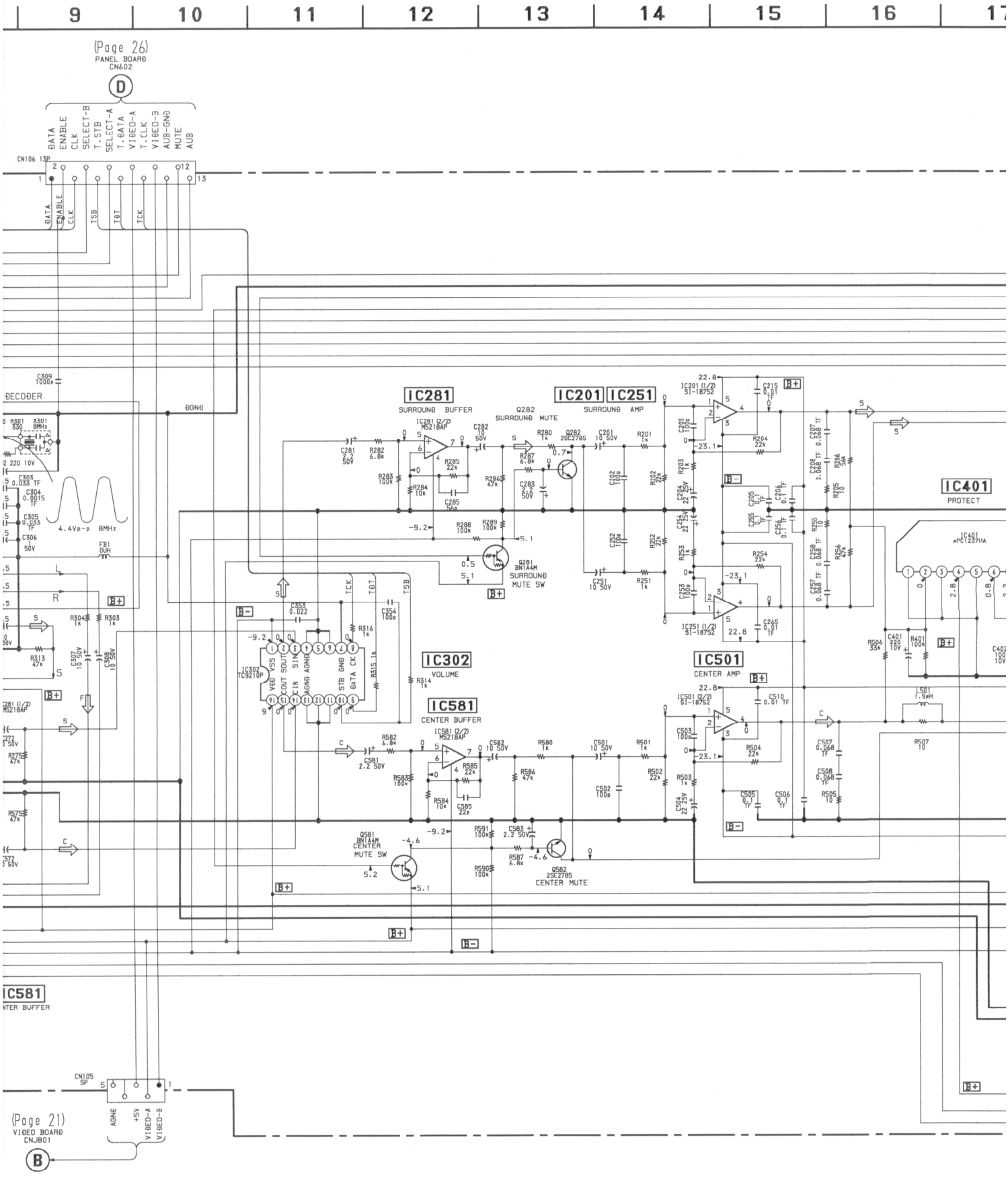

RY1
C1
CN1
AC IN
JW2
JW1
RED
VIO
BLU
CN2
CN4
EXCEPT E MODEL
EXCEPT E MODEL
【MAIN BOARD(D)】
CN3
I-655-014-
T901
POWER
TRANSFORMER
MODEL
【MAIN BOARD(E)】
CN5
VIO
BLU
GRY
ORG
BRN
RED
VS1
VOLTAGE SELECTOR
220-240V ◄— 110-120V
I-655-014-
【MAIN BOARD(C)】
JW217
JW218
JW219
JW220
JW221
JW222
JW223
I-655-014-
【MAIN BOARD(B)】
C720
R703
Q701
C721
D711
D712
R704
C722
D713
C723
R705
F1
JW224
PS701
C755
JW225
C756
PS702
F2
R701
D701
R702
R703
C751
C752
C724
D714
D715
D716
JW226
D717
JW227
JW228
D709
D710
JW229
JW230
JW231
JW232
D707
D708
I-655-014-
JW237
JW238
JW239
JW240
JW241
JW242
JW243
JW244
C712
C705
C706
C713
IC703
IC701
C707
IC702
C708
JW216
C716
C714
C715
I-655-014-

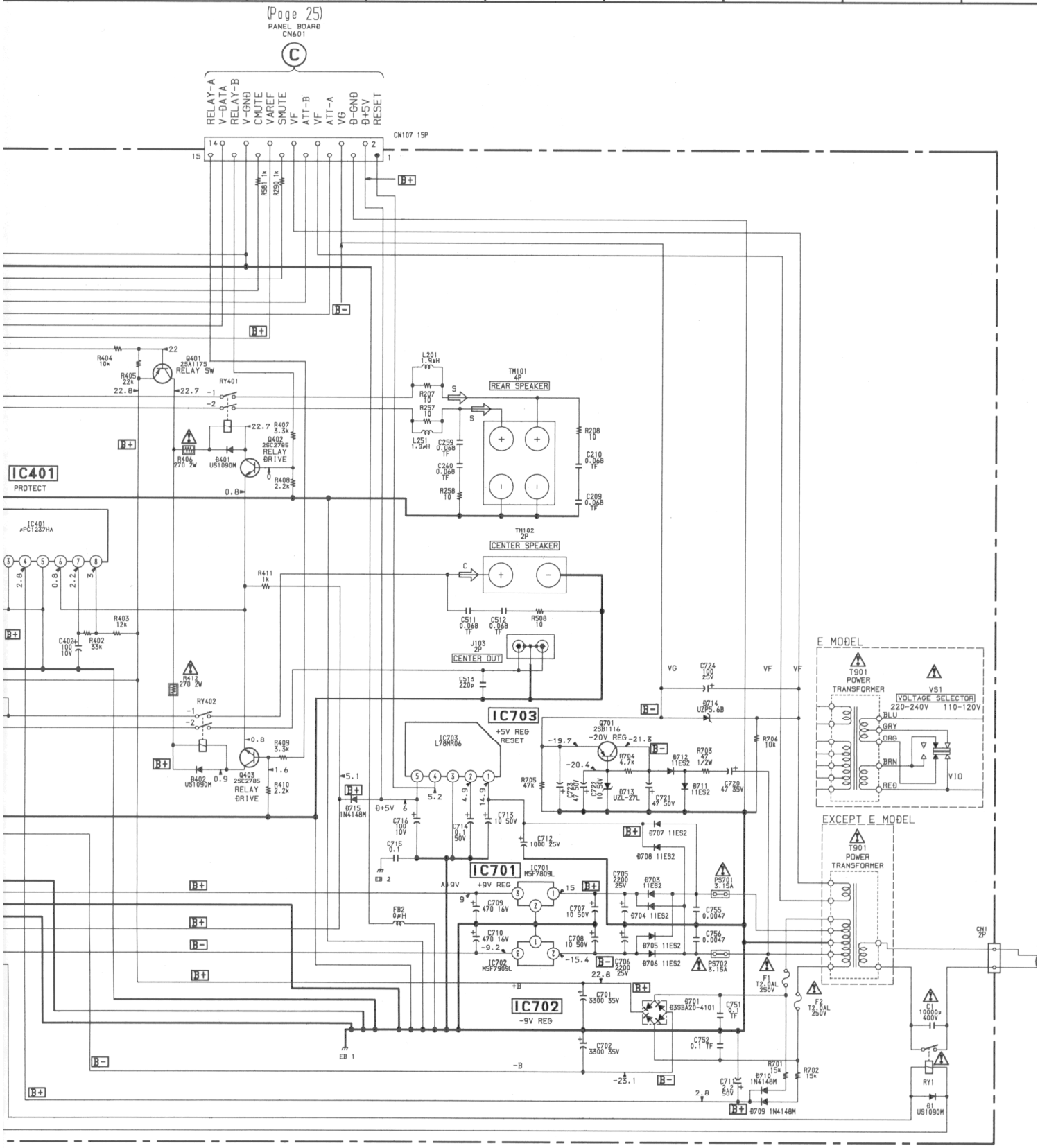
2-4. SCHEMATIC DIAGRAM — MAIN SECTION —

• See page 15 for IC Block Diagrams.

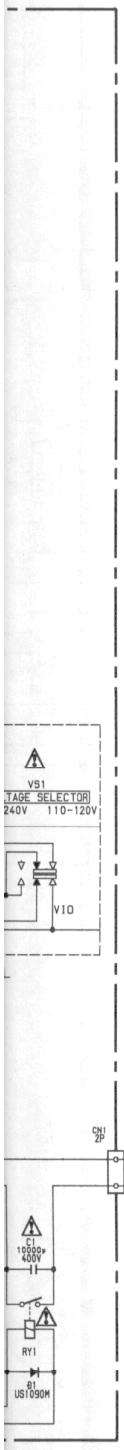


A	B	3DBATT&DILECT
L	L	PROLOGIC
H	L	DILECT
L	H	PROLOGIC/ATT
H	H	DILECT/ATT


9
10
11
12
13
14
15
16
(Page 26)
PANEL BOARD
CN602
D
DATA
ENABLE
CLK
SELECT-B
T.STB
SELECT-A
T.DATA
VIDEO-A
T.CLK
VIDEO-B
AUB-GND
MUTE
AUB
CN106 13P
IC281
SURROUND BUFFER
IC201 IC251
SURROUND AMP
Q282
SURROUND MUTE
Q281
BN144M
SURROUND MUTE SW
IC401
PROTECT
IC302
VOLUME
IC581
CENTER BUFFER
IC501
CENTER AMP
Q581
BN144M
CENTER MUTE SW
Q582
2SC2785
CENTER MUTE
DECODER
GND
B+
B-
CN105 5P
(Page 21)
VIDEO BOARD
CNJ801
B


(Page 25)
PANEL BOARD
CN601
RELAY-A
V-DATA
RELAY-B
V-GND
CMUTE
VAREF
SMUTE
VF
ATT-B
VF
ATT-A
VG
D-GND
D+5V
RESET
CN107 15P
IC401
PROTECT
RELAY SW
RELAY DRIVE
REAR SPEAKER
CENTER SPEAKER
CENTER OUT
IC703
+5V REG
RESET
IC701
+9V REG
IC702
-9V REG
E MODEL
EXCEPT E MODEL
T901
POWER
TRANSFORMER
VOLTAGE SELECTOR
220-240V
110-120V
BLU
GRY
ORG
BRN
RED
VIO
B+
B-
-B

25 | 26 | 27 | 28



NOTE

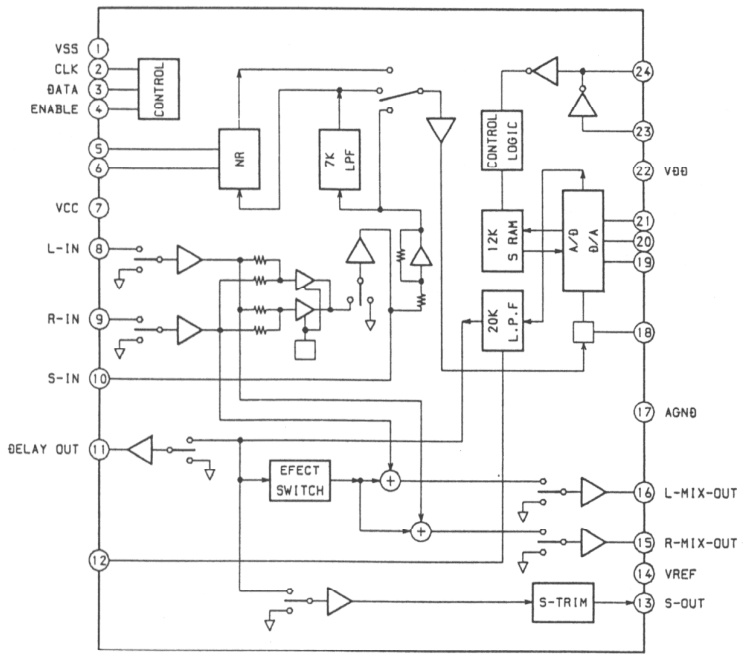
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % :indicates tolerance.
- △ :internal component.
- :nonflammable resistor.
- :panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

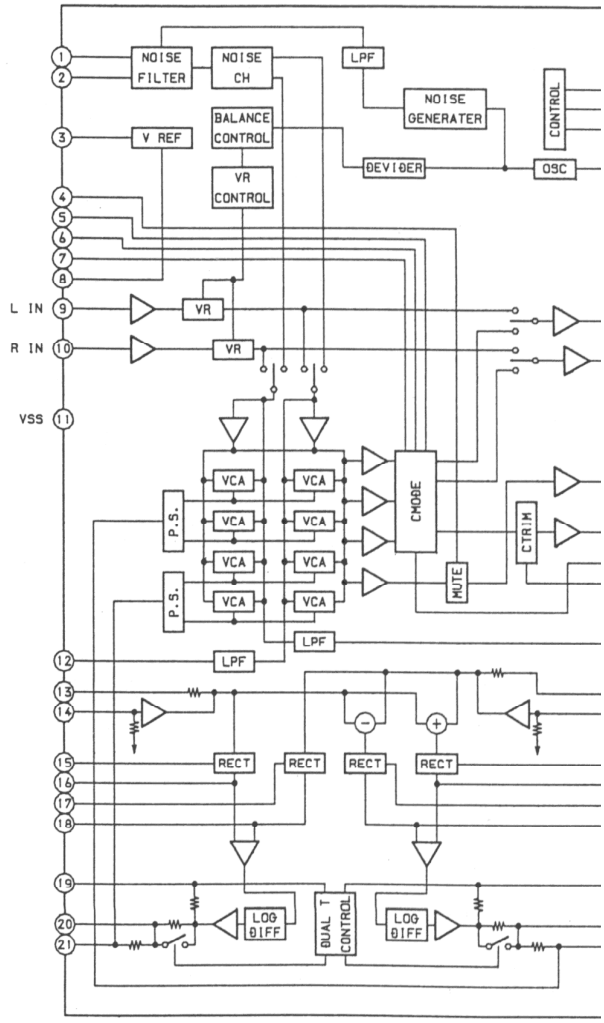
- B+ :B+ Line.
- B− :B− Line.
- Voltages and waveforms are dc with respect to ground in service mode. (See page 2)
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - :INPUT
  - F :FRONT
  - S :SURROUND
  - C :CENTER

2-5. IC BLOCK DIAGRAMS — MAIN SECTION —

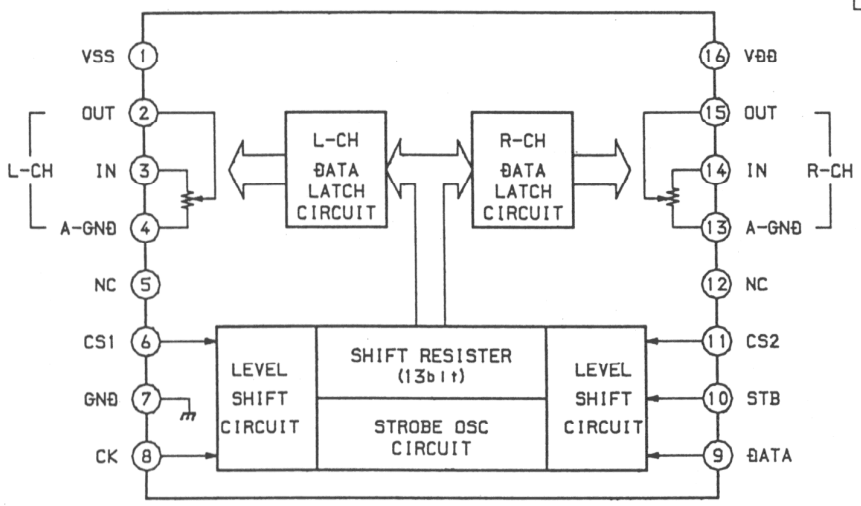
IC300 LV1010N

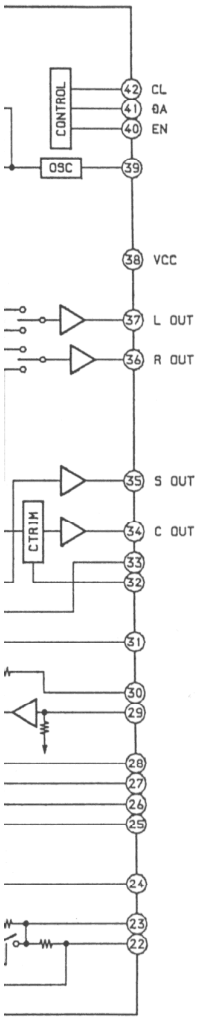


IC301 LA2785

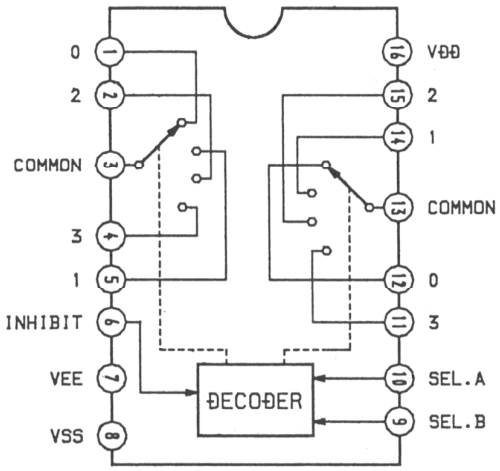


IC302 TC9210P

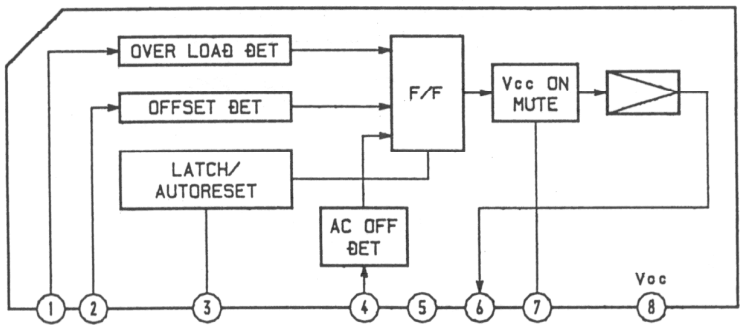




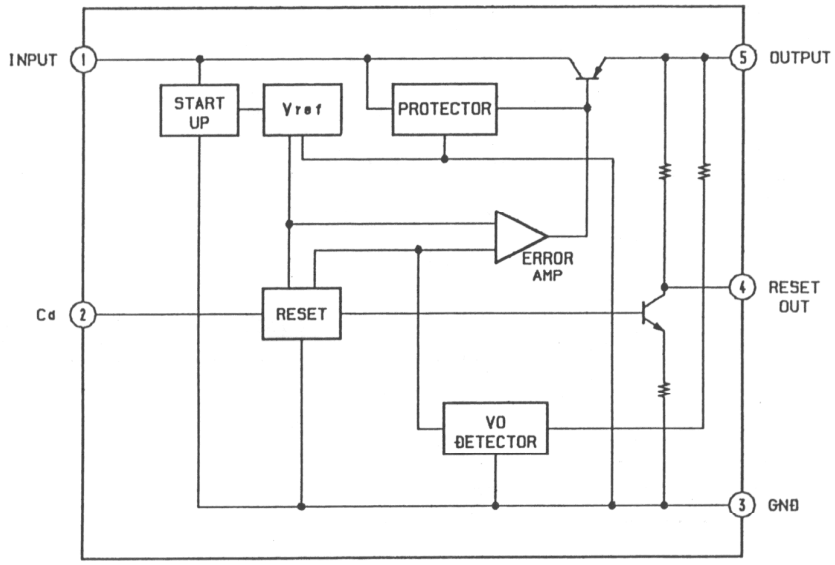
IC303 MC14052



IC401 μPC1237HA

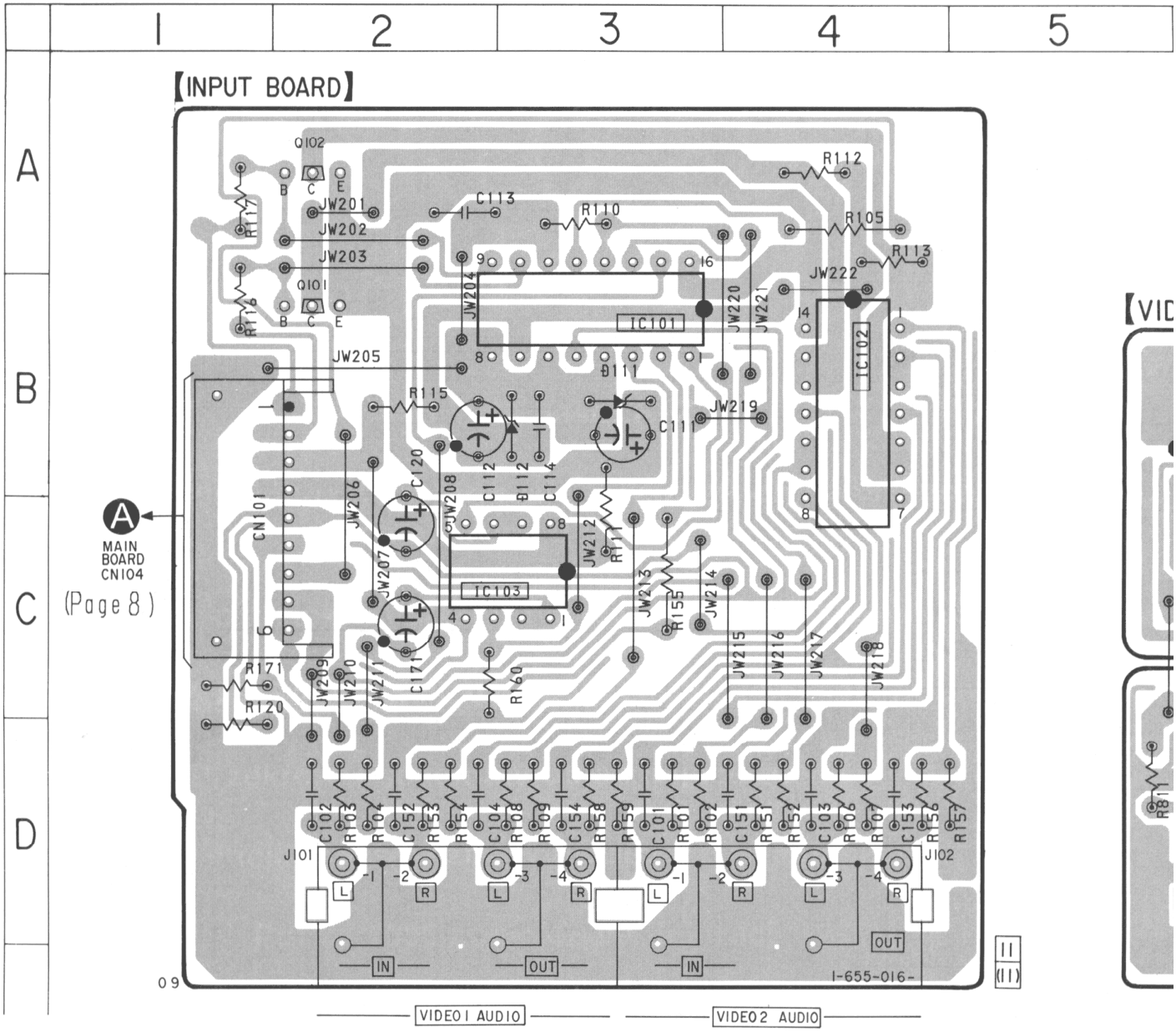


IC703 L78MR06



2-6. PRINTED WIRING BOARD — IN/OUT SECTION —

• See page 4 for Circuit Boards Location.



• **Semiconductor Location**

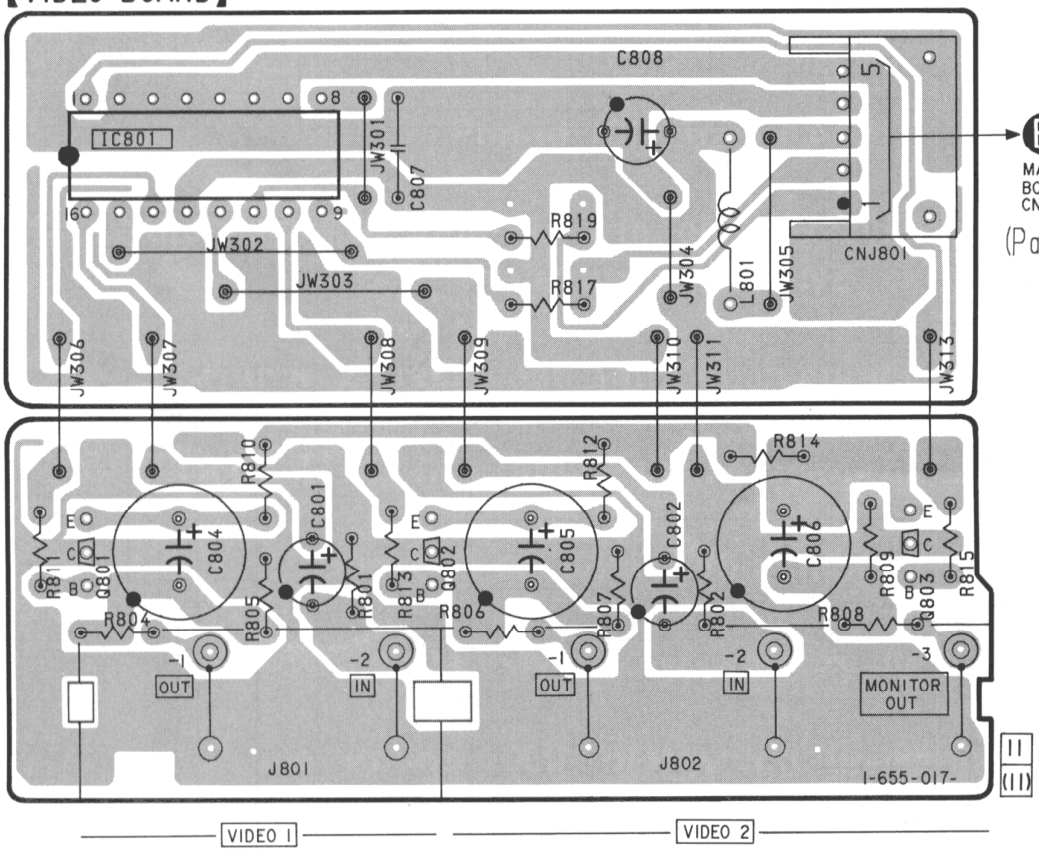
Ref. No.	Location
D111	B-3
D112	B-3
IC101	B-3
IC102	B-4
IC103	C-2
IC801	B-6
Q101	B-2
Q102	A-2
Q801	D-6
Q802	D-7
Q803	D-9

Note:

- o—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enable seeing.

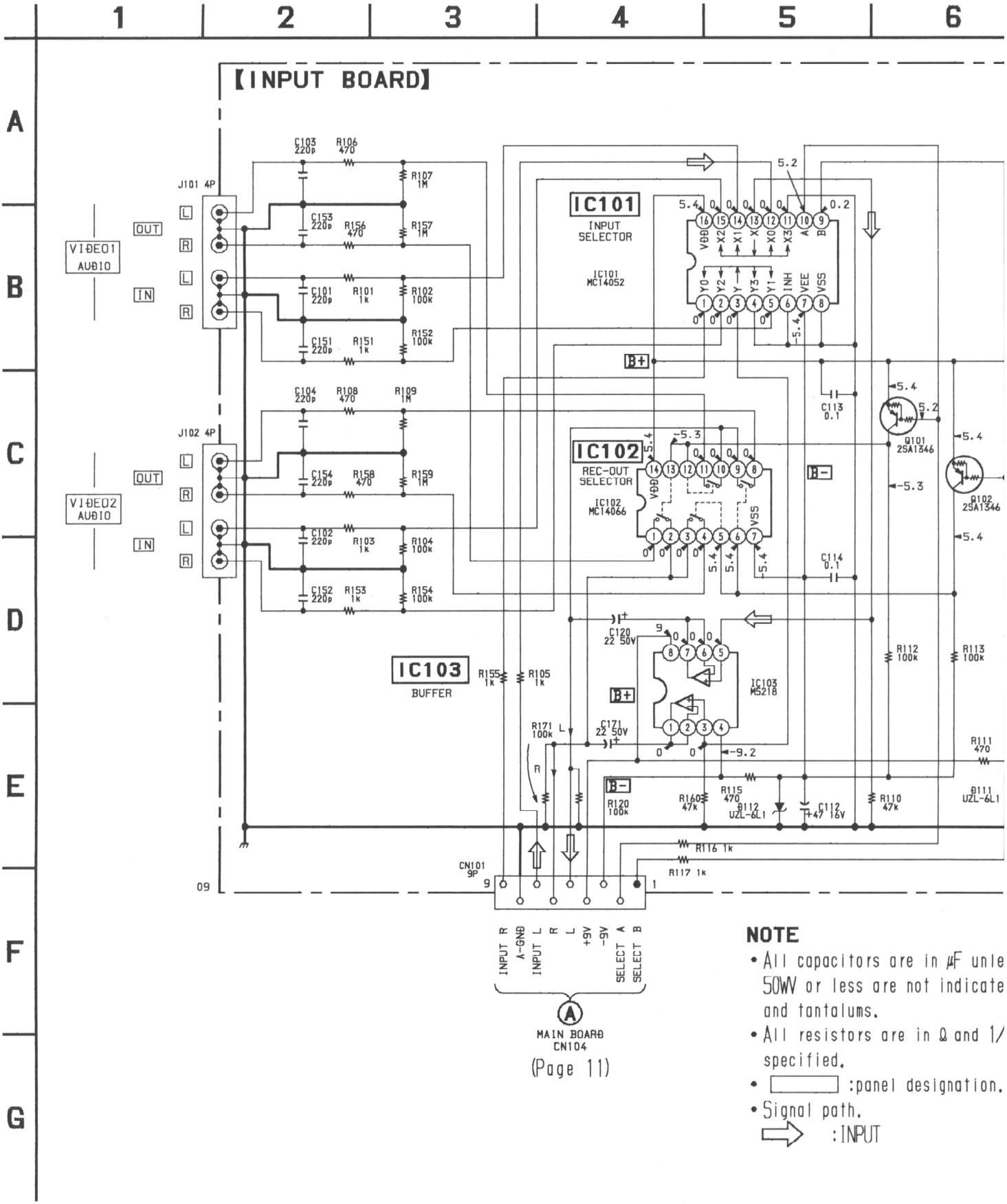
	6	7	8	9	

【VIDEO BOARD】



(Page 8)

2-7. SCHEMATIC DIAGRAM — IN/OUT SECTION —



NOTE

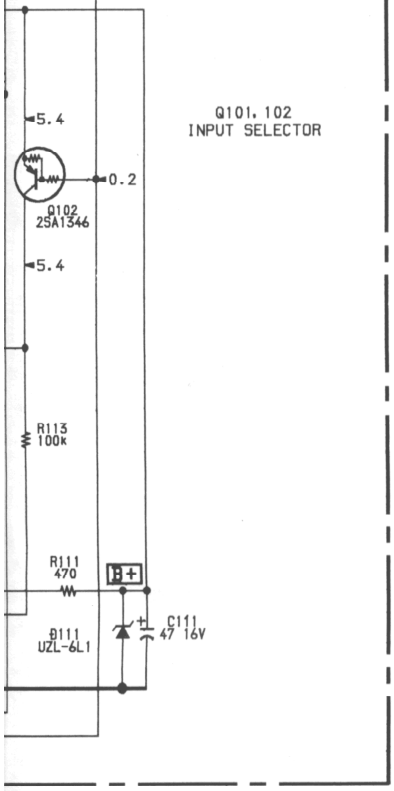
- All capacitors are in μF unle 50WV or less are not indicate and tantalums.
- All resistors are in Ω and 1/ specified.
- ▭ :panel designation.
- Signal path.
  ⇨ :INPUT

IC101

A	B	INPUT SELECT
L	L	PRI IN
H	L	VIDEO1
L	H	VIDEO2
H	H	———

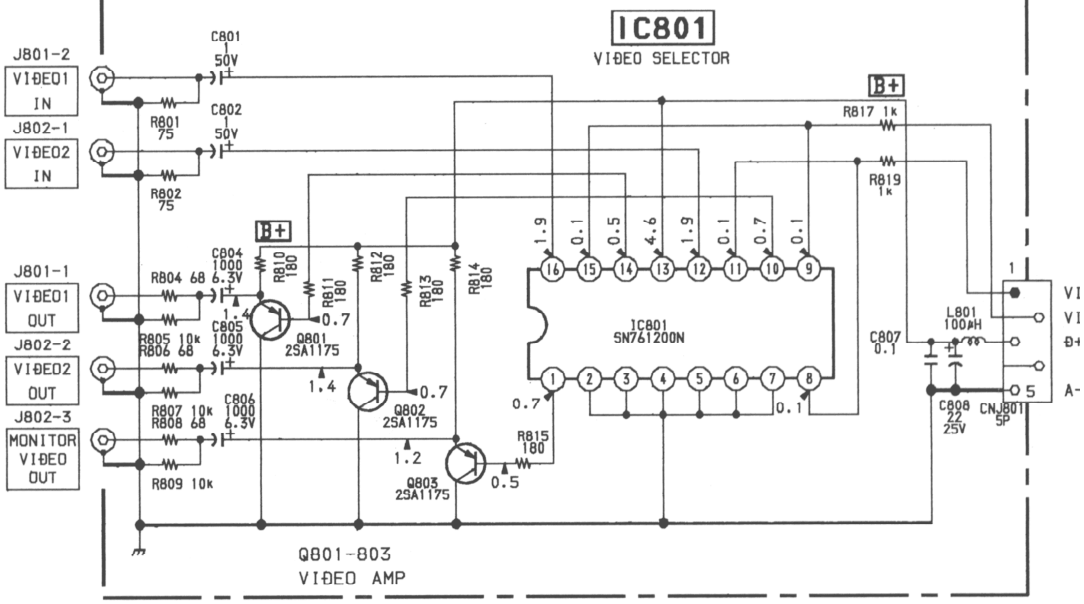
IC102

$\overline{A}$	$\overline{B}$	VIDEO OUT
H	H	VIDEO1/VIDEO2
L	H	VIDEO2
H	L	VIDEO1
L	L	———

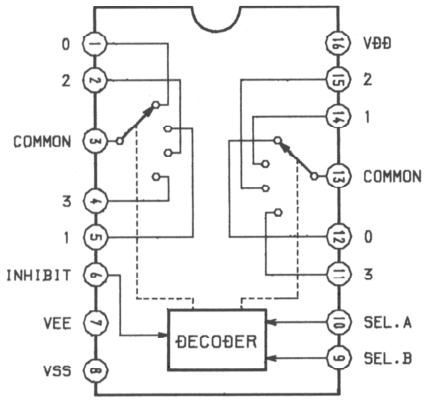


Q101, 102
INPUT SELECTOR

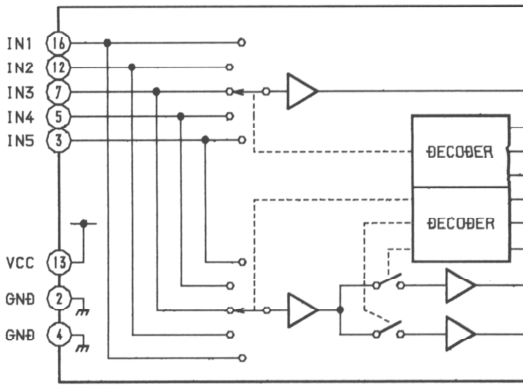
【VIDEO BOARD】



IC101 MC14052



IC801 SN761200N

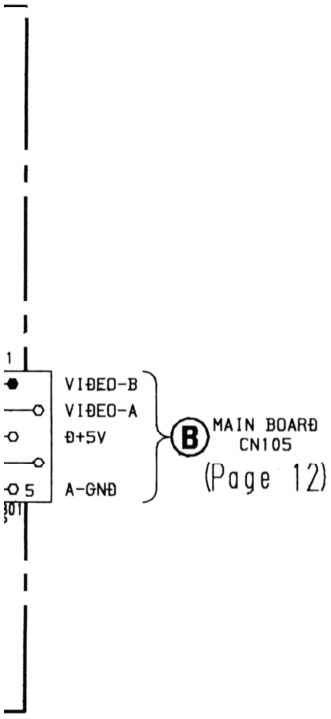


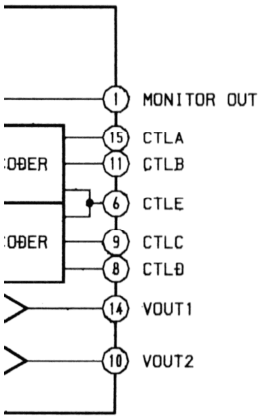
μF unless otherwise noted. pF: μμF
indicated except for electrolytics

Ω and 1/4W or less unless otherwise

ignation.

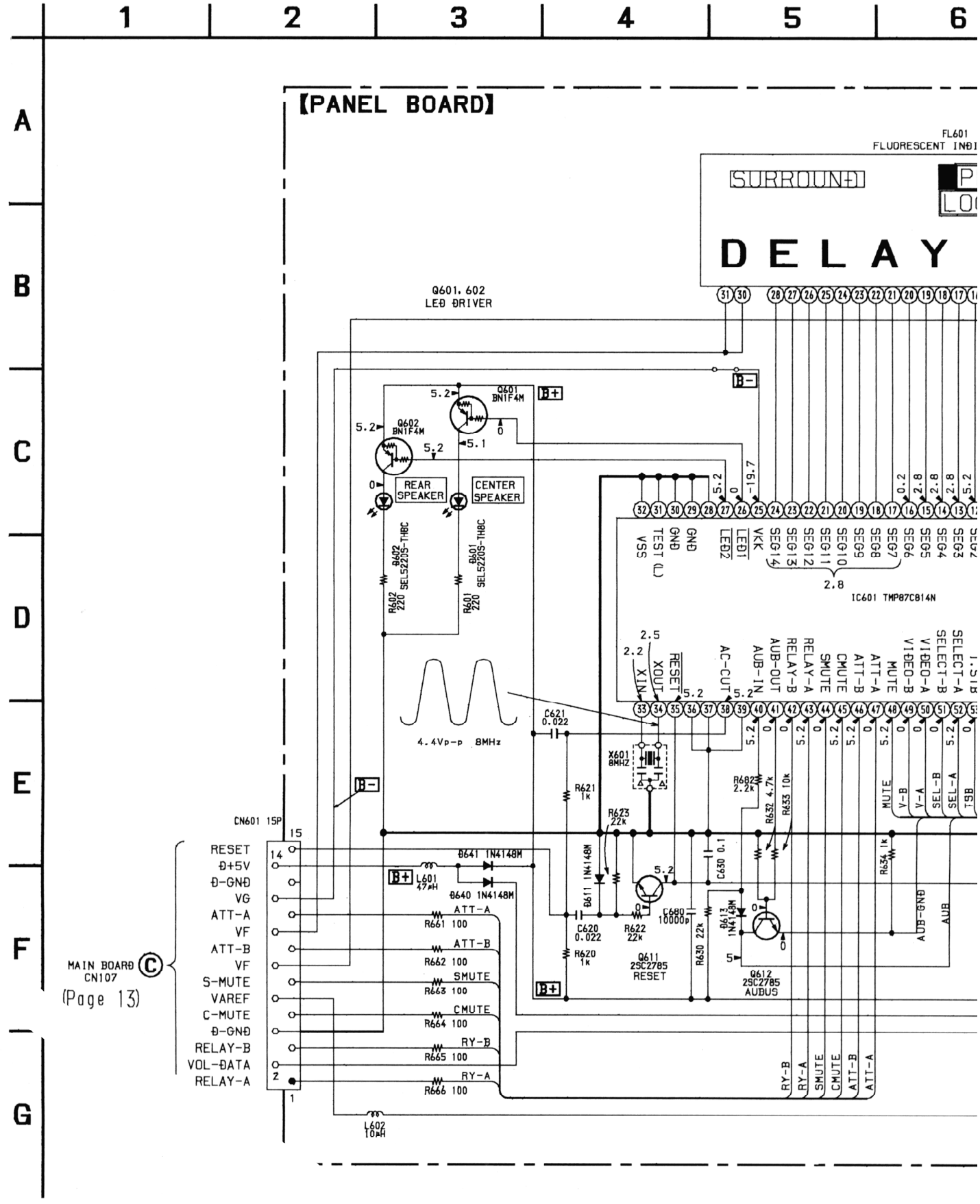
- B+ :B+ Line.
- B- :B- Line.
- Voltages and waveforms are dc with respect to ground in service mode. (See page 2)
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

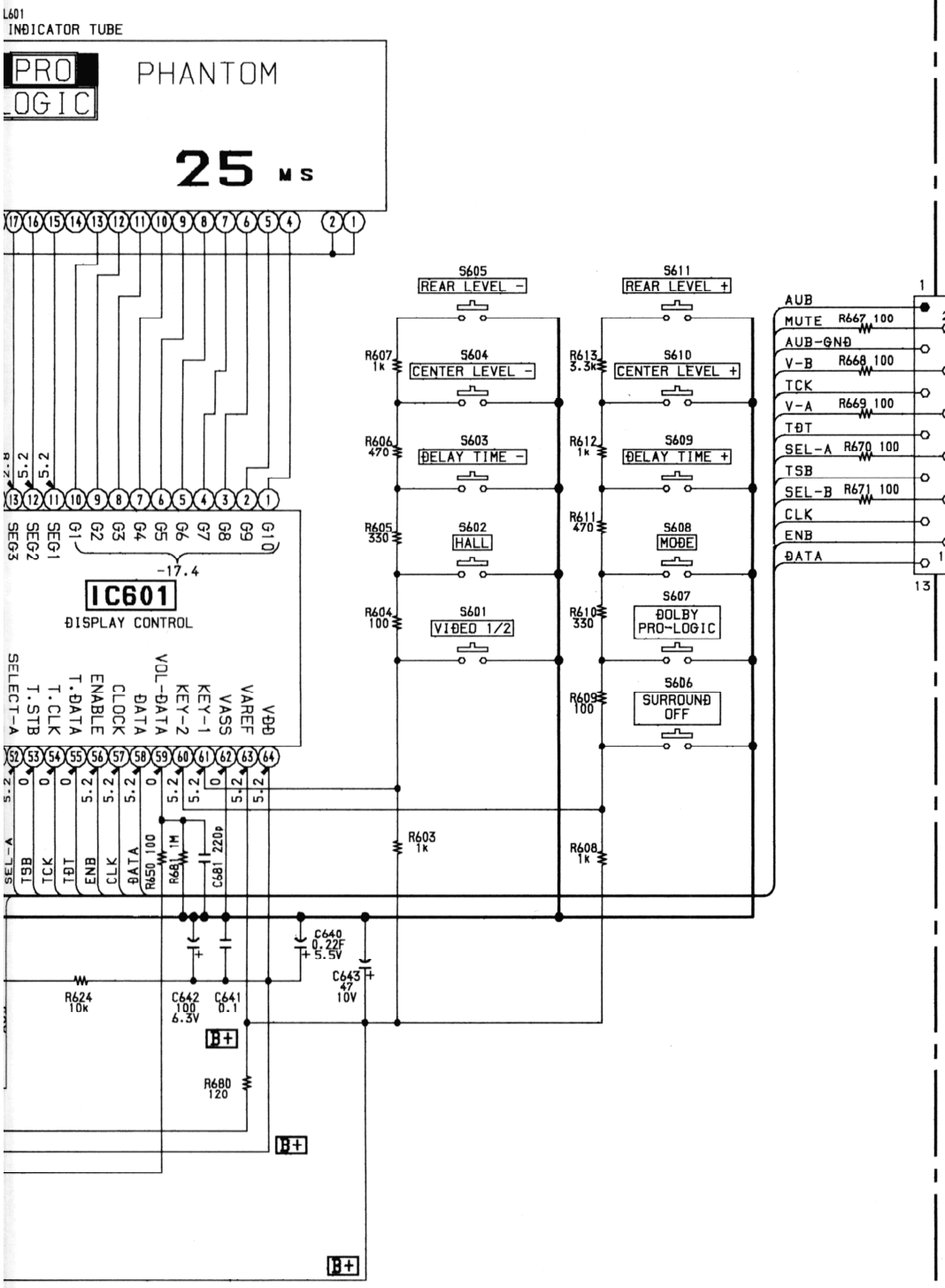

VIDEO-B
VIDEO-A
D+5V
A-GND
B
MAIN BOARD
CN105
(Page 12)


MONITOR OUT
CTLA
CTLB
CTLE
CTLC
CTLD
VOUT1
VOUT2

2-9. SCHEMATIC DIAGRAM — PANEL SECTION —

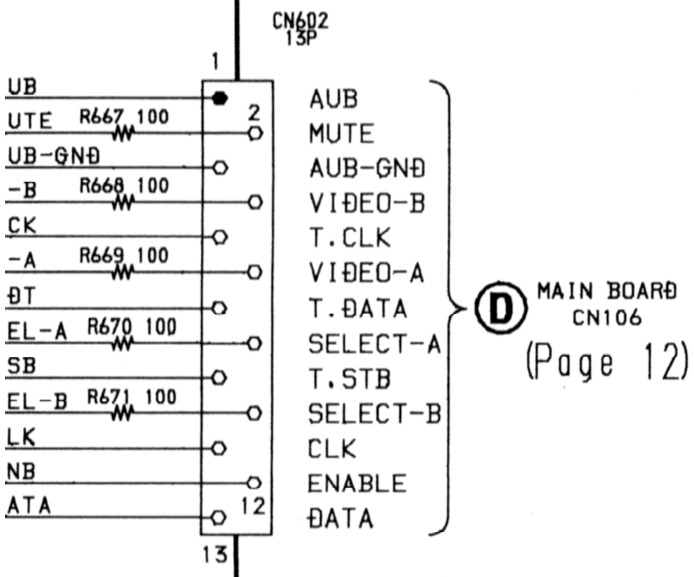
• See page 28 for IC Pin Function. (IC601)





NOTE

- All capacitors are in μF unless 50WV or less are not indicated and tantalums.
- All resistors are in Ω and 1/4W specified.
- △ :internal component.
- □ :panel designation.
- B+ :B+ Line.
- B- :B- Line.
- Voltages and waveforms are dc w in service mode. (See page
- Voltages are taken with a VOM (I Voltage variations may be noted tion tolerances.
- Waveforms are taken with a osci Voltage variations may be noted tion tolerances.



NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- B− :B− Line.
- Voltages and waveforms are dc with respect to ground in service mode. (See page 2)
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

2-10. IC PIN FUNCTION

- **IC601 TMP87C814N Display Control**

Pin No.	Pin Name	I/O	Function
1 to 10	G1 to G10	O	FL display grid output
11 to 24	SEG1 to SEG14	O	FL display segment output
25	VKK	–	–27V (FL display)
26, 27	$\overline{\text{LED1}}$, $\overline{\text{LED2}}$	O	LED driver output
28	——	–	Connect to GND
29, 30	GND	–	GND
31	TEST (L)	–	Connect to GND
32	VSS	–	GND
33	XIN	I	Clock oscillator (8MHz)
34	XOUT	O	
35	$\overline{\text{RESET}}$	I	System reset input
36, 37	——	–	Connect to GND
38	AC-CUT	I	Power on detect
39	——	–	Connect to GND
40	AUB-IN	I	AU-BUS input
41	AUB-OUT	O	AU-BUS output
42	RELAY-A	O	Center speaker relay drive
43	RELAY-B	O	Rear speaker relay drive
44	SMUTE	O	Rear speaker mute
45	CMUTE	O	Center speaker mute
46	ATT-B	O	Input function ATT control
47	ATT-A	O	
48	MUTE	O	Front speaker mute
49	VIDEO-B	O	Video output select
50	VIDEO-A	O	
51	SELECT-B	O	Audio signal select
52	SELECT-A	O	
53	T. STB	O	IC302 TC9210P strobe output
54	T. DATA	O	IC302 TC9210P data output
55	T. CLK	O	IC302 TC9210P clock output
56	ENABLE	O	IC300 LV1010N & IC301 LA2785 enable output
57	CLOCK	O	IC300 LV1010N & IC301 LA2785 clock output
58	DATA	O	IC300 LV1010N & IC301 LA2785 data output
59	VOL-DATA	O	Volume position data output
60	KEY-2	I	Key input
61	KEY-1	I	
62	VASS	–	GND
63	VAREF	–	AD reference voltage
64	VDD	–	+5V

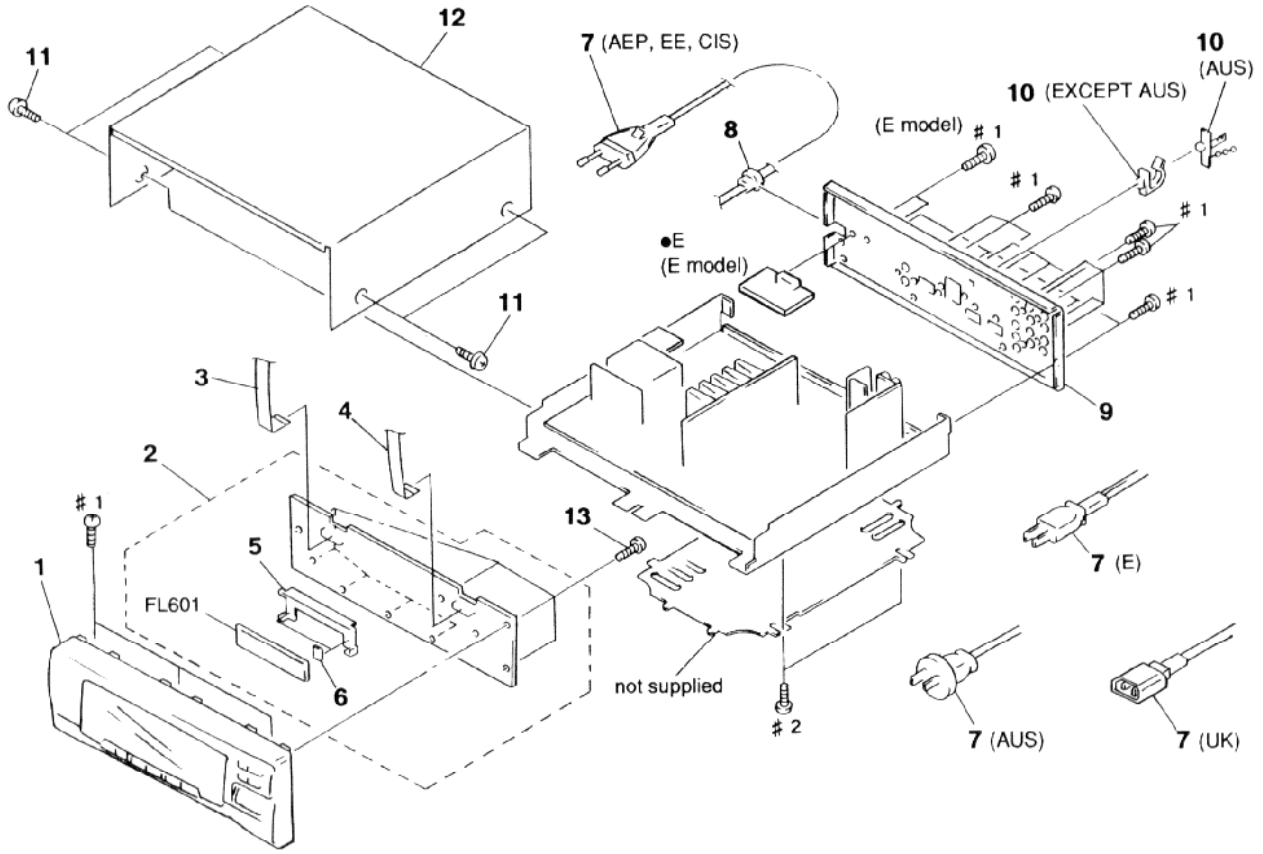
SECTION 3
EXPLODED VIEWS

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  EE : East European model
  AUS : Australian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

3-1. CASE SECTION

NOTE: ● A, ● B, ● C, and ● D are supplied as MAIN board (EXCEPT E model)
● A, ● B, ● C, and ● E are supplied as MAIN board (E model)

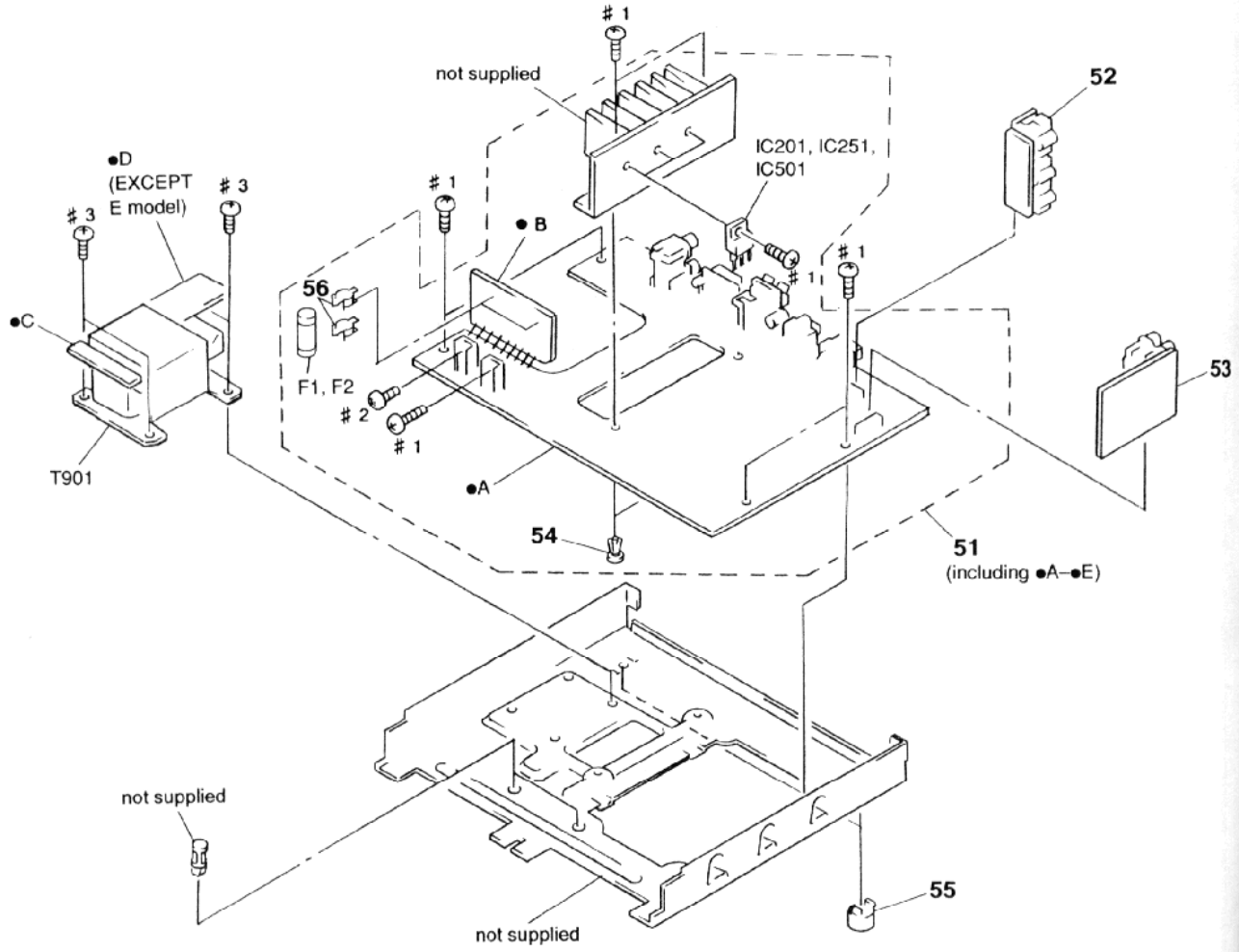


Ref. No.	Part No.	Description	Remark
1	X-4945-616-1	PANEL ASSY, FRONT	
* 2	A-4377-258-A	PANEL BOARD, COMPLETE	
3	1-690-094-11	WIRE, FLAT TYPE (15 CORE)	
4	1-590-036-11	WIRE, FLAT TYPE (13 CORE)	
* 5	4-971-122-01	HOLDER, FL TUBE	
* 6	4-949-935-01	CUSHION (FL)	
⚠7	1-575-651-71	CORD, POWER (AEP, EE, CIS)	
⚠7	1-590-379-11	CORD, POWER (UK)	
⚠7	1-775-304-11	CORD, POWER (E)	
⚠7	1-775-305-11	CORD, POWER (AUS)	
* 8	3-703-244-00	BUSHING (2104), CORD (EXCEPT E)	
8	3-703-571-11	BUSHING (S)(4516), CORD (E)	

Ref. No.	Part No.	Description	Remark
* 9	4-971-125-01	PANEL, BACK (AEP)	
* 9	4-971-125-11	PANEL, BACK (UK)	
* 9	4-971-125-22	PANEL, BACK (EE, CIS)	
* 9	4-971-125-31	PANEL, BACK (E)	
* 9	4-971-125-41	PANEL, BACK (AUS)	
* 10	4-949-235-01	HOOK (EXCEPT AUS)	
10	4-956-370-12	BAND, PLUG FIXED (AUS)	
11	3-363-099-01	SCREW (CASE 3 TP2)	
12	4-969-777-31	CASE	
13	4-951-620-01	SCREW (2.6X8), +BVTP	
FL601	1-517-399-11	INDICATOR TUBE, FLUORESCENT	

3-2. MAIN BOARD SECTION

NOTE: ● A, ● B, ● C, and ● D are supplied as MAIN board (EXCEPT E model)
● A, ● B, ● C, and ● E are supplied as MAIN board (E model)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 51	A-4377-257-A	MAIN BOARD, COMPLETE (AEP, UK, EE, CIS)	
* 51	A-4378-424-A	MAIN BOARD, COMPLETE (E)	
* 51	A-4378-425-A	MAIN BOARD, COMPLETE (AUS)	
* 52	1-655-017-11	VIDEO BOARD	
* 53	A-4377-259-A	INPUT BOARD, COMPLETE	
54	4-812-134-00	RIVET NYLON, 3.5	
55	X-4941-228-1	FOOT ASSY	
56	1-533-217-31	HOLDER, FUSE	

Ref. No.	Part No.	Description	Remark
⚠F1	1-532-203-00	FUSE (T2.0A 250V)	
⚠F2	1-532-203-00	FUSE (T2.0A 250V)	
IC201	8-759-502-32	IC SI-18752N	
IC251	8-759-502-32	IC SI-18752N	
IC501	8-759-502-32	IC SI-18752N	
⚠T901	1-427-781-11	TRANSFORMER, POWER (AEP, UK, EE, CIS)	
⚠T901	1-429-099-11	TRANSFORMER, POWER (E, AUS)	

SECTION 4
ELECTRICAL PARTS LIST

INPUT **MAIN**

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviation
  EE : East European model
  AUS : Australian model

Ref.No.	Part No.	Description			Remark
*	A-4377-259-A	INPUT BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-286-31	CERAMIC	220PF	10%	50V
C102	1-162-286-31	CERAMIC	220PF	10%	50V
C103	1-162-286-31	CERAMIC	220PF	10%	50V
C104	1-162-286-31	CERAMIC	220PF	10%	50V
C111	1-104-664-11	ELECT	47uF	20%	16V
C112	1-104-664-11	ELECT	47uF	20%	16V
C113	1-164-159-11	CERAMIC	0.1uF		50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C120	1-124-916-11	ELECT	22uF	20%	63V
C151	1-162-286-31	CERAMIC	220PF	10%	50V
C152	1-162-286-31	CERAMIC	220PF	10%	50V
C153	1-162-286-31	CERAMIC	220PF	10%	50V
C154	1-162-286-31	CERAMIC	220PF	10%	50V
C171	1-124-916-11	ELECT	22uF	20%	63V
		< CONNECTOR >			
* CN101	1-569-504-11	PIN, CONNECTOR 9P			
		< DIODE >			
D111	8-719-933-33	DIODE HZS6A1L			
D112	8-719-933-33	DIODE HZS6A1L			
		< IC >			
IC101	8-759-000-48	IC MC14052BCP			
IC102	8-759-000-49	IC MC14066BCP			
IC103	8-759-634-51	IC M5218AP			
		< JACK >			
J101	1-695-188-21	JACK, PIN 4P (VIDEO1 AUDIO)			
J102	1-695-188-21	JACK, PIN 4P (VIDEO2 AUDIO)			
		< TRANSISTOR >			
Q101	8-729-900-63	TRANSISTOR DTA124ES			
Q102	8-729-900-63	TRANSISTOR DTA124ES			
		< RESISTOR >			
R101	1-249-417-11	CARBON	1K	5% 1/4W	F
R102	1-249-441-11	CARBON	100K	5% 1/4W	
R103	1-249-417-11	CARBON	1K	5% 1/4W	F
R104	1-249-441-11	CARBON	100K	5% 1/4W	
R105	1-249-417-11	CARBON	1K	5% 1/4W	F
R106	1-249-413-11	CARBON	470	5% 1/4W	F
R107	1-247-903-00	CARBON	1M	5% 1/4W	
R108	1-249-413-11	CARBON	470	5% 1/4W	F
R109	1-247-903-00	CARBON	1M	5% 1/4W	
R110	1-249-437-11	CARBON	47K	5% 1/4W	
R111	1-249-413-11	CARBON	470	5% 1/4W	F
R112	1-249-441-11	CARBON	100K	5% 1/4W	
R113	1-249-441-11	CARBON	100K	5% 1/4W	
R115	1-249-413-11	CARBON	470	5% 1/4W	F
R116	1-249-417-11	CARBON	1K	5% 1/4W	F
R117	1-249-417-11	CARBON	1K	5% 1/4W	F
R120	1-249-441-11	CARBON	100K	5% 1/4W	
R151	1-249-417-11	CARBON	1K	5% 1/4W	F
R152	1-249-441-11	CARBON	100K	5% 1/4W	
R153	1-249-417-11	CARBON	1K	5% 1/4W	F
R154	1-249-441-11	CARBON	100K	5% 1/4W	
R155	1-249-417-11	CARBON	1K	5% 1/4W	F
R156	1-249-413-11	CARBON	470	5% 1/4W	F
R157	1-247-903-00	CARBON	1M	5% 1/4W	
R158	1-249-413-11	CARBON	470	5% 1/4W	F
R159	1-247-903-00	CARBON	1M	5% 1/4W	
R160	1-249-437-11	CARBON	47K	5% 1/4W	
R171	1-249-441-11	CARBON	100K	5% 1/4W	
**********					
*	A-4377-257-A	MAIN BOARD, COMPLETE (AEP, UK, EE, CIS)			
		**********			
*	A-4378-424-A	MAIN BOARD, COMPLETE (E)			
		**********			
*	A-4378-425-A	MAIN BOARD, COMPLETE (AUS)			
		**********			
	1-533-217-31	HOLDER, FUSE			
	4-812-134-00	RIVET NYLON, 3.5			
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
⚠C1	1-161-744-51	CERAMIC	0.01uF		400V

MAIN

Ref. No.	Part No.	Description				Remark
C201	1-124-907-11	ELECT	10uF	20%	50V	
C202	1-162-282-31	CERAMIC	100PF	10%	50V	
C203	1-162-282-31	CERAMIC	100PF	10%	50V	
C204	1-126-233-11	ELECT	22uF	20%	50V	
C205	1-136-165-00	FILM	0.1uF	5%	50V	
C206	1-136-165-00	FILM	0.1uF	5%	50V	
C207	1-136-495-11	FILM	0.068uF	5%	50V	
C208	1-136-495-11	FILM	0.068uF	5%	50V	
C209	1-136-495-11	FILM	0.068uF	5%	50V	
C210	1-136-495-11	FILM	0.068uF	5%	50V	
C215	1-136-153-00	FILM	0.01uF	5%	50V	
C251	1-124-907-11	ELECT	10uF	20%	50V	
C252	1-162-282-31	CERAMIC	100PF	10%	50V	
C253	1-162-282-31	CERAMIC	100PF	10%	50V	
C254	1-126-233-11	ELECT	22uF	20%	50V	
C255	1-136-165-00	FILM	0.1uF	5%	50V	
C256	1-136-165-00	FILM	0.1uF	5%	50V	
C257	1-136-495-11	FILM	0.068uF	5%	50V	
C258	1-136-495-11	FILM	0.068uF	5%	50V	
C259	1-136-495-11	FILM	0.068uF	5%	50V	
C260	1-136-495-11	FILM	0.068uF	5%	50V	
C265	1-136-153-00	FILM	0.01uF	5%	50V	
C271	1-106-351-00	MYLAR	2200PF	5%	200V	(AEP, UK, EE, CIS)
C271	1-137-366-11	FILM	0.0022uF	5%	50V	(E, AUS)
C272	1-124-907-11	ELECT	10uF	20%	50V	
C273	1-106-351-00	MYLAR	2200PF	5%	200V	(AEP, UK, EE, CIS)
C273	1-137-366-11	FILM	0.0022uF	5%	50V	(E, AUS)
C281	1-124-925-11	ELECT	2.2uF	20%	100V	
C282	1-124-907-11	ELECT	10uF	20%	50V	
C283	1-124-925-11	ELECT	2.2uF	20%	100V	
C285	1-162-217-31	CERAMIC	56PF	5%	50V	
C302	1-104-666-11	ELECT	220uF	20%	10V	
C303	1-136-159-00	FILM	0.033uF	5%	50V	
C304	1-106-347-00	MYLAR	1500PF	5%	200V	
C305	1-136-159-00	FILM	0.033uF	5%	50V	
C306	1-124-903-11	ELECT	1uF	20%	50V	
C307	1-124-907-11	ELECT	10uF	20%	50V	
C308	1-124-907-11	ELECT	10uF	20%	50V	
C309	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C310	1-126-963-11	ELECT	4.7uF	20%	50V	
C311	1-124-925-11	ELECT	2.2uF	20%	100V	
C312	1-162-596-11	CERAMIC	0.022uF	30%	25V	
C313	1-164-159-11	CERAMIC	0.1uF		50V	
C314	1-104-666-11	ELECT	220uF	20%	10V	
C316	1-124-907-11	ELECT	10uF	20%	50V	
C317	1-124-443-00	ELECT	100uF	20%	10V	
C318	1-162-292-31	CERAMIC	680PF	10%	50V	
C322	1-126-963-11	ELECT	4.7uF	20%	50V	
C323	1-136-173-00	FILM	0.47uF	5%	50V	
C324	1-124-477-11	ELECT	47uF	20%	25V	
C325	1-136-165-00	FILM	0.1uF	5%	50V	
C326	1-136-165-00	FILM	0.1uF	5%	50V	
C327	1-124-902-00	ELECT	0.47uF	20%	50V	
C328	1-126-963-11	ELECT	4.7uF	20%	50V	
C329	1-124-902-00	ELECT	0.47uF	20%	50V	
C330	1-126-963-11	ELECT	4.7uF	20%	50V	
C331	1-136-167-00	FILM	0.15uF	5%	50V	
C332	1-126-962-11	ELECT	3.3uF	20%	50V	
C333	1-136-167-00	FILM	0.15uF	5%	50V	
C334	1-136-157-00	FILM	0.022uF	5%	50V	
C335	1-136-161-00	FILM	0.047uF	5%	50V	
C336	1-104-666-11	ELECT	220uF	20%	10V	
C337	1-124-907-11	ELECT	10uF	20%	50V	
C338	1-124-907-11	ELECT	10uF	20%	50V	
C339	1-124-907-11	ELECT	10uF	20%	50V	
C340	1-124-907-11	ELECT	10uF	20%	50V	
C341	1-104-666-11	ELECT	220uF	20%	10V	
C342	1-126-962-11	ELECT	3.3uF	20%	50V	
C343	1-126-962-11	ELECT	3.3uF	20%	50V	
C344	1-136-165-00	FILM	0.1uF	5%	50V	
C345	1-136-165-00	FILM	0.1uF	5%	50V	
C346	1-124-902-00	ELECT	0.47uF	20%	50V	
C347	1-126-963-11	ELECT	4.7uF	20%	50V	
C348	1-124-902-00	ELECT	0.47uF	20%	50V	
C349	1-126-963-11	ELECT	4.7uF	20%	50V	
C350	1-136-167-00	FILM	0.15uF	5%	50V	
C351	1-126-962-11	ELECT	3.3uF	20%	50V	
C352	1-136-167-00	FILM	0.15uF	5%	50V	
C353	1-161-494-00	CERAMIC	0.022uF		25V	
C354	1-162-282-31	CERAMIC	100PF	10%	50V	
C358	1-164-159-11	CERAMIC	0.1uF		50V	
C371	1-104-664-11	ELECT	47uF	20%	16V	
C372	1-104-664-11	ELECT	47uF	20%	16V	
C373	1-124-925-11	ELECT	2.2uF	20%	100V	
C374	1-124-925-11	ELECT	2.2uF	20%	100V	
C375	1-161-494-00	CERAMIC	0.022uF		25V	
C401	1-104-666-11	ELECT	220uF	20%	10V	
C402	1-124-443-00	ELECT	100uF	20%	10V	
C501	1-124-907-11	ELECT	10uF	20%	50V	
C502	1-162-282-31	CERAMIC	100PF	10%	50V	
C503	1-162-282-31	CERAMIC	100PF	10%	50V	
C504	1-126-233-11	ELECT	22uF	20%	50V	
C505	1-136-165-00	FILM	0.1uF	5%	50V	
C506	1-136-165-00	FILM	0.1uF	5%	50V	
C507	1-136-495-11	FILM	0.068uF	5%	50V	
C508	1-136-495-11	FILM	0.068uF	5%	50V	
C510	1-136-153-00	FILM	0.01uF	5%	50V	
C511	1-136-495-11	FILM	0.068uF	5%	50V	
C512	1-136-495-11	FILM	0.068uF	5%	50V	

Ref. No.	Part No.	Description				Remark
C513	1-162-286-31	CERAMIC	220PF	10%	50V	
C572	1-124-907-11	ELECT	10uF	20%	50V	
C581	1-124-925-11	ELECT	2.2uF	20%	100V	
C582	1-124-907-11	ELECT	10uF	20%	50V	
C583	1-124-925-11	ELECT	2.2uF	20%	100V	
C585	1-162-207-31	CERAMIC	22PF	5%	50V	
C701	1-126-413-11	ELECT	3300uF	20%	35V	
C702	1-126-413-11	ELECT	3300uF	20%	35V	
C705	1-124-563-11	ELECT	2200uF	20%	25V	
C706	1-124-563-11	ELECT	2200uF	20%	25V	
C707	1-124-907-11	ELECT	10uF	20%	50V	
C708	1-124-907-11	ELECT	10uF	20%	50V	
C709	1-126-941-11	ELECT	470uF	20%	16V	
C710	1-126-941-11	ELECT	470uF	20%	16V	
C711	1-124-925-11	ELECT	2.2uF	20%	100V	
C712	1-124-557-11	ELECT	1000uF	20%	25V	
C713	1-124-907-11	ELECT	10uF	20%	50V	
C714	1-124-463-00	ELECT	0.1uF	20%	50V	
C715	1-164-159-11	CERAMIC	0.1uF		50V	
C716	1-124-443-00	ELECT	100uF	20%	10V	
C720	1-126-967-11	ELECT	47uF	20%	35V	
C721	1-124-910-11	ELECT	47uF	20%	50V	
C722	1-124-907-11	ELECT	10uF	20%	50V	
C723	1-124-910-11	ELECT	47uF	20%	50V	
C724	1-124-478-11	ELECT	100uF	20%	25V	
C751	1-136-165-00	FILM	0.1uF	5%	50V	
C752	1-136-165-00	FILM	0.1uF	5%	50V	
C755	1-161-377-00	CERAMIC	0.0047uF	30%	50V	
C756	1-161-377-00	CERAMIC	0.0047uF	30%	50V	
		< CONNECTOR >				
CN1	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P				
CN102	1-770-249-41	HOUSING, CONNECTOR (PC BOARD) 9P				(SYSTEM CONTROL 3)
CN103	1-764-016-21	HOUSING, CONNECTOR (PC BOARD) 5P				(SYSTEM CONTROL 4)
* CN104	1-569-495-11	SOCKET, CONNECTOR 9P				
* CN105	1-569-491-11	SOCKET, CONNECTOR 5P				
* CN106	1-568-832-11	SOCKET, CONNECTOR 13P				
* CN107	1-568-834-11	SOCKET, CONNECTOR 15P				
		< DIODE >				
D1	8-719-815-85	DIODE	1S1585			
D371	8-719-933-33	DIODE	HZS6A1L			
D372	8-719-933-33	DIODE	HZS6A1L			
D401	8-719-815-85	DIODE	1S1585			
D402	8-719-815-85	DIODE	1S1585			
D701	8-719-028-23	DIODE	D3SBA20-4101			
D703	8-719-024-99	DIODE	11ES2-NTA2B			
D704	8-719-024-99	DIODE	11ES2-NTA2B			
D705	8-719-024-99	DIODE	11ES2-NTA2B			
D706	8-719-024-99	DIODE	11ES2-NTA2B			
D707	8-719-024-99	DIODE	11ES2-NTA2B			
D708	8-719-024-99	DIODE	11ES2-NTA2B			
D709	8-719-987-63	DIODE	1N4148M			
D710	8-719-987-63	DIODE	1N4148M			
D711	8-719-024-99	DIODE	11ES2-NTA2B			
D712	8-719-024-99	DIODE	11ES2-NTA2B			
D713	8-719-934-18	DIODE	HZS27-2L			
D714	8-719-014-66	DIODE	UZP-5.6B			
D715	8-719-987-63	DIODE	1N4148M			
		< GROUND TERMINAL >				
EB1	1-537-770-11	TERMINAL BOARD, GROUND				
EB2	1-537-770-11	TERMINAL BOARD, GROUND				
		< FUSE >				
⚠F1	1-532-203-00	FUSE (T2.0A 250V)				
⚠F2	1-532-203-00	FUSE (T2.0A 250V)				
		< COIL >				
FB1	1-412-473-21	INDUCTOR	0UH			
FB2	1-412-473-21	INDUCTOR	0UH			
		< IC >				
IC201	8-759-502-32	IC	SI-18752N			
IC251	8-759-502-32	IC	SI-18752N			
IC281	8-759-634-51	IC	M5218AP			
IC300	8-759-168-98	IC	LV1010N			
IC301	8-759-248-74	IC	LA2785			
IC302	8-759-281-42	IC	TC9210P			
IC303	8-759-000-48	IC	MC14052BCP			
IC304	8-759-634-51	IC	M5218AP			
IC401	8-759-111-68	IC	uPC1237HA			
IC501	8-759-502-32	IC	SI-18752N			
IC581	8-759-634-51	IC	M5218AP			
IC701	8-759-701-59	IC	NJM78M09FA			
IC702	8-759-604-49	IC	M5F7909L			
IC703	8-759-820-13	IC	L78MR06			
		< JACK >				
J103	1-770-157-11	JACK, PIN 2P (CENTER OUT)				
		< COIL >				
L201	1-420-872-00	COIL, AIR-CORE	1.9uH			
L251	1-420-872-00	COIL, AIR-CORE	1.9uH			
L301	1-410-509-11	INDUCTOR	10uH			
L302	1-410-509-11	INDUCTOR	10uH			
L501	1-420-872-00	COIL, AIR-CORE	1.9uH			

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Replace only with part number specified.

MAIN

Ref. No.	Part No.	Description				Remark
		< IC LINK >				
⚠PS701	1-532-844-21	LINK, IC 3.15A				
⚠PS702	1-532-844-21	LINK, IC 3.15A				
		< TRANSISTOR >				
Q281	8-729-422-57	TRANSISTOR	UN4111			
Q282	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q301	8-729-422-57	TRANSISTOR	UN4111			
Q302	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q303	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q401	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q402	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q403	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q581	8-729-422-57	TRANSISTOR	UN4111			
Q582	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q701	8-729-140-04	TRANSISTOR	2SB1116A-L			
		< RESISTOR >				
R201	1-249-417-11	CARBON	1K	5%	1/4W	F
R202	1-249-433-11	CARBON	22K	5%	1/4W	
R203	1-249-417-11	CARBON	1K	5%	1/4W	F
R204	1-249-433-11	CARBON	22K	5%	1/4W	
R205	1-249-393-11	CARBON	10	5%	1/4W	F
R206	1-249-438-11	CARBON	56K	5%	1/4W	
R207	1-249-393-11	CARBON	10	5%	1/4W	F
R208	1-249-393-11	CARBON	10	5%	1/4W	F
R251	1-249-417-11	CARBON	1K	5%	1/4W	F
R252	1-249-433-11	CARBON	22K	5%	1/4W	
R253	1-249-417-11	CARBON	1K	5%	1/4W	F
R254	1-249-433-11	CARBON	22K	5%	1/4W	
R255	1-249-393-11	CARBON	10	5%	1/4W	F
R256	1-249-437-11	CARBON	47K	5%	1/4W	
R257	1-249-393-11	CARBON	10	5%	1/4W	F
R258	1-249-393-11	CARBON	10	5%	1/4W	F
R271	1-249-429-11	CARBON	10K	5%	1/4W	
R272	1-249-429-11	CARBON	10K	5%	1/4W	
R273	1-249-429-11	CARBON	10K	5%	1/4W	
R274	1-249-429-11	CARBON	10K	5%	1/4W	
R275	1-249-437-11	CARBON	47K	5%	1/4W	
R280	1-249-417-11	CARBON	1K	5%	1/4W	F
R282	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R283	1-249-441-11	CARBON	100K	5%	1/4W	
R284	1-249-429-11	CARBON	10K	5%	1/4W	
R285	1-249-433-11	CARBON	22K	5%	1/4W	
R286	1-249-437-11	CARBON	47K	5%	1/4W	
R287	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R288	1-249-441-11	CARBON	100K	5%	1/4W	
R289	1-249-441-11	CARBON	100K	5%	1/4W	
R290	1-249-417-11	CARBON	1K	5%	1/4W	F

Ref. No.	Part No.	Description				Remark
R300	1-247-903-00	CARBON	1M	5%	1/4W	
R301	1-249-411-11	CARBON	330	5%	1/4W	
R302	1-249-432-11	CARBON	18K	5%	1/4W	
R303	1-249-417-11	CARBON	1K	5%	1/4W	F
R304	1-249-417-11	CARBON	1K	5%	1/4W	F
R306	1-249-436-11	CARBON	39K	5%	1/4W	
R308	1-249-417-11	CARBON	1K	5%	1/4W	F
R309	1-249-417-11	CARBON	1K	5%	1/4W	F
R310	1-249-417-11	CARBON	1K	5%	1/4W	F
R313	1-249-437-11	CARBON	47K	5%	1/4W	
R314	1-249-417-11	CARBON	1K	5%	1/4W	F
R315	1-249-417-11	CARBON	1K	5%	1/4W	F
R316	1-249-417-11	CARBON	1K	5%	1/4W	F
R317	1-249-437-11	CARBON	47K	5%	1/4W	
R321	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R322	1-247-864-11	CARBON	24K	5%	1/4W	
R323	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R324	1-247-864-11	CARBON	24K	5%	1/4W	
R325	1-249-401-11	CARBON	47	5%	1/4W	F
R361	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R362	1-247-864-11	CARBON	24K	5%	1/4W	
R363	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R364	1-247-864-11	CARBON	24K	5%	1/4W	
R365	1-249-401-11	CARBON	47	5%	1/4W	F
R370	1-249-417-11	CARBON	1K	5%	1/4W	F
R371	1-249-413-11	CARBON	470	5%	1/4W	F
R372	1-249-413-11	CARBON	470	5%	1/4W	F
R373	1-249-441-11	CARBON	100K	5%	1/4W	
R374	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R375	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R376	1-249-441-11	CARBON	100K	5%	1/4W	
R377	1-249-417-11	CARBON	1K	5%	1/4W	F
R378	1-249-417-11	CARBON	1K	5%	1/4W	F
R381	1-249-417-11	CARBON	1K	5%	1/4W	F
R382	1-249-417-11	CARBON	1K	5%	1/4W	F
R401	1-249-441-11	CARBON	100K	5%	1/4W	
R402	1-249-435-11	CARBON	33K	5%	1/4W	
R403	1-249-430-11	CARBON	12K	5%	1/4W	
R404	1-249-429-11	CARBON	10K	5%	1/4W	
R405	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R406	1-216-453-00	METAL OXIDE	270	5%	2W	F
R407	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R408	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R409	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R410	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R411	1-249-417-11	CARBON	1K	5%	1/4W	F
⚠R412	1-216-453-00	METAL OXIDE	270	5%	2W	F
R501	1-249-417-11	CARBON	1K	5%	1/4W	F
R502	1-249-433-11	CARBON	22K	5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W	F

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Ref.No.	Part No.	Description				Remark
R504	1-249-433-11	CARBON	22K	5%	1/4W	
R505	1-249-393-11	CARBON	10	5%	1/4W	F
R506	1-249-435-11	CARBON	33K	5%	1/4W	
R507	1-249-393-11	CARBON	10	5%	1/4W	F
R508	1-249-393-11	CARBON	10	5%	1/4W	F
R571	1-249-426-11	CARBON	5.6K	5%	1/4W	
R572	1-249-441-11	CARBON	100K	5%	1/4W	
R573	1-249-429-11	CARBON	10K	5%	1/4W	
R574	1-249-429-11	CARBON	10K	5%	1/4W	
R575	1-249-437-11	CARBON	47K	5%	1/4W	
R580	1-249-417-11	CARBON	1K	5%	1/4W	F
R581	1-249-417-11	CARBON	1K	5%	1/4W	F
R582	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R583	1-249-441-11	CARBON	100K	5%	1/4W	
R584	1-249-429-11	CARBON	10K	5%	1/4W	
R585	1-249-433-11	CARBON	22K	5%	1/4W	
R586	1-249-437-11	CARBON	47K	5%	1/4W	
R587	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R590	1-249-441-11	CARBON	100K	5%	1/4W	
R591	1-249-441-11	CARBON	100K	5%	1/4W	
R701	1-249-431-11	CARBON	15K	5%	1/4W	
R702	1-249-431-11	CARBON	15K	5%	1/4W	
R703	1-260-083-11	CARBON	47	5%	1/2W	
R704	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R705	1-249-437-11	CARBON	47K	5%	1/4W	
R706	1-249-429-11	CARBON	10K	5%	1/4W	
		< RELAY >				
⚠RY1	1-755-018-11	RELAY				
RY401	1-515-921-11	RELAY (12V)				
RY402	1-515-921-11	RELAY (12V)				
		< TRANSFORMER >				
⚠T901	1-427-781-11	TRANSFORMER, POWER (AEP, UK, EE, CIS)				
⚠T901	1-429-099-11	TRANSFORMER, POWER (E, AUS)				
		< TERMINAL >				
TM101	1-537-842-11	TERMINAL BOARD (REAR SPEAKER)				
TM102	1-537-849-11	TERMINAL BOARD (ANTENNA) (2P) (CENTER SPEAKER)				
		< VOLTAGE SELECTOR >				
⚠VS1	1-762-298-11	SW, AC POWER VOLTAGE SELECTOR (E)				
		< VIBRATOR >				
X301	1-579-125-11	VIBRATOR, CERAMIC (8MHz)				

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Ref.No.	Part No.	Description				Remark
*	A-4377-258-A	PANEL BOARD, COMPLETE				
		**********				
*	4-949-935-01	CUSHION (FL)				
*	4-971-122-01	HOLDER, FL TUBE				
		< CAPACITOR >				
C620	1-161-494-00	CERAMIC	0.022uF		25V	
C621	1-161-494-00	CERAMIC	0.022uF		25V	
C630	1-164-159-11	CERAMIC	0.1uF		50V	
C640	1-104-905-11	DOUBLE LAYERS	0.22F		5.5V	
C641	1-164-159-11	CERAMIC	0.1uF		50V	
C642	1-124-584-00	ELECT	100uF	20%	10V	
C643	1-104-664-11	ELECT	47uF	20%	10V	
C680	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C681	1-162-286-31	CERAMIC	220PF	10%	50V	
		< CONNECTOR >				
* CN601	1-568-834-11	SOCKET, CONNECTOR 15P				
* CN602	1-568-832-11	SOCKET, CONNECTOR 13P				
		< DIODE >				
D601	8-719-038-63	DIODE SEL5220S-TH8F (CENTER SPEAKER)				
D602	8-719-038-63	DIODE SEL5220S-TH8F (REAR SPEAKER)				
D611	8-719-987-63	DIODE 1N4148M				
D613	8-719-987-63	DIODE 1N4148M				
D640	8-719-987-63	DIODE 1N4148M				
D641	8-719-987-63	DIODE 1N4148M				
		< FLUORESCENT INDICATOR >				
FL601	1-517-399-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC601	8-759-343-99	IC TMP87C814N-1147				
		< COIL >				
L601	1-410-517-11	INDUCTOR 47uH				
L602	1-410-509-11	MICRO INDUCTOR 10uH				
		< TRANSISTOR >				
Q601	8-729-900-63	TRANSISTOR DTA124ES				
Q602	8-729-900-63	TRANSISTOR DTA124ES				
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q612	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		< RESISTOR >				
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-409-11	CARBON	220	5%	1/4W	F
R603	1-249-417-11	CARBON	1K	5%	1/4W	F
R604	1-247-807-31	CARBON	100	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PANEL VIDEO

Ref. No.	Part No.	Description				Remark
R605	1-249-411-11	CARBON	330	5%	1/4W	
R606	1-249-413-11	CARBON	470	5%	1/4W	F
R607	1-249-417-11	CARBON	1K	5%	1/4W	F
R608	1-249-417-11	CARBON	1K	5%	1/4W	F
R609	1-247-807-31	CARBON	100	5%	1/4W	
R610	1-249-411-11	CARBON	330	5%	1/4W	
R611	1-249-413-11	CARBON	470	5%	1/4W	F
R612	1-249-417-11	CARBON	1K	5%	1/4W	F
R613	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R620	1-249-417-11	CARBON	1K	5%	1/4W	F
R621	1-249-417-11	CARBON	1K	5%	1/4W	F
R622	1-249-433-11	CARBON	22K	5%	1/4W	
R623	1-249-433-11	CARBON	22K	5%	1/4W	
R624	1-249-429-11	CARBON	10K	5%	1/4W	
R630	1-249-433-11	CARBON	22K	5%	1/4W	
R632	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R633	1-249-429-11	CARBON	10K	5%	1/4W	
R634	1-249-417-11	CARBON	1K	5%	1/4W	F
R650	1-247-807-31	CARBON	100	5%	1/4W	
R661	1-247-807-31	CARBON	100	5%	1/4W	
R662	1-247-807-31	CARBON	100	5%	1/4W	
R663	1-247-807-31	CARBON	100	5%	1/4W	
R664	1-247-807-31	CARBON	100	5%	1/4W	
R665	1-247-807-31	CARBON	100	5%	1/4W	
R666	1-247-807-31	CARBON	100	5%	1/4W	
R667	1-247-807-31	CARBON	100	5%	1/4W	
R668	1-247-807-31	CARBON	100	5%	1/4W	
R669	1-247-807-31	CARBON	100	5%	1/4W	
R670	1-247-807-31	CARBON	100	5%	1/4W	
R671	1-247-807-31	CARBON	100	5%	1/4W	
R680	1-249-406-11	CARBON	120	5%	1/4W	F
R681	1-247-903-00	CARBON	1M	5%	1/4W	
R682	1-249-421-11	CARBON	2.2K	5%	1/4W	F
		< SWITCH >				
S601	1-554-303-21	SWITCH, TACTILE (VIDEO 1/2)				
S602	1-554-303-21	SWITCH, TACTILE (HALL)				
S603	1-554-303-21	SWITCH, TACTILE (DELAY TIME -)				
S604	1-554-303-21	SWITCH, TACTILE (CENTER LEVEL -)				
S605	1-554-303-21	SWITCH, TACTILE (REAR LEVEL -)				
S606	1-554-303-21	SWITCH, TACTILE (SURROUND OFF)				
S607	1-554-303-21	SWITCH, TACTILE (DOLBY PRO-LOGIC)				
S608	1-554-303-21	SWITCH, TACTILE (MODE)				
S609	1-554-303-21	SWITCH, TACTILE (DELAY TIME +)				
S610	1-554-303-21	SWITCH, TACTILE (CENTER LEVEL +)				
S611	1-554-303-21	SWITCH, TACTILE (REAR LEVEL +)				
		< VIBRATOR >				
X601	1-579-125-11	VIBRATOR, CERAMIC (8MHz)				

Ref. No.	Part No.	Description				Remark
**********						
*	1-655-017-11	VIDEO BOARD				
		**********				
		< CAPACITOR >				
C801	1-124-903-11	ELECT	1uF	20%	50V	
C802	1-124-903-11	ELECT	1uF	20%	50V	
C804	1-124-471-00	ELECT	1000uF	20%	6.3V	
C805	1-124-471-00	ELECT	1000uF	20%	6.3V	
C806	1-124-471-00	ELECT	1000uF	20%	6.3V	
C807	1-164-159-11	CERAMIC	0.1uF		50V	
C808	1-126-233-11	ELECT	22uF	20%	50V	
		< CONNECTOR >				
* CNJ801	1-569-500-11	PIN, CONNECTOR 5P				
		< IC >				
IC801	8-759-061-95	IC SN761200N				
		< JACK >				
J801	1-695-317-21	JACK, PIN 2P (VIDEO1 IN/OUT)				
J802	1-766-748-11	JACK 3P (VIDEO2 IN/OUT, MONITOR OUT)				
		< COIL >				
L801	1-410-521-11	INDUCTOR	100uH			
		< TRANSISTOR >				
Q801	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q802	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q803	8-729-119-76	TRANSISTOR	2SA1175-HFE			
		< RESISTOR >				
R801	1-247-804-11	CARBON	75	5%	1/4W	
R802	1-247-804-11	CARBON	75	5%	1/4W	
R804	1-249-403-11	CARBON	68	5%	1/4W	F
R805	1-249-429-11	CARBON	10K	5%	1/4W	
R806	1-249-403-11	CARBON	68	5%	1/4W	F
R807	1-249-429-11	CARBON	10K	5%	1/4W	
R808	1-249-403-11	CARBON	68	5%	1/4W	F
R809	1-249-429-11	CARBON	10K	5%	1/4W	
R810	1-249-408-11	CARBON	180	5%	1/4W	F
R811	1-249-408-11	CARBON	180	5%	1/4W	F
R812	1-249-408-11	CARBON	180	5%	1/4W	F
R813	1-249-408-11	CARBON	180	5%	1/4W	F
R814	1-249-408-11	CARBON	180	5%	1/4W	F
R815	1-249-408-11	CARBON	180	5%	1/4W	F
R817	1-249-417-11	CARBON	1K	5%	1/4W	F
R819	1-249-417-11	CARBON	1K	5%	1/4W	F

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
4	1-590-036-11	WIRE, FLAT TYPE (13 CORE)	
5	1-690-094-11	WIRE, FLAT TYPE (15 CORE)	
⚠7	1-575-651-71	CORD, POWER (AEP, EE, CIS)	
⚠7	1-590-379-11	CORD, POWER (UK)	
⚠7	1-775-304-11	CORD, POWER (E)	
⚠7	1-775-305-11	CORD, POWER (AUS)	
⚠F1	1-532-203-00	FUSE (T2.0A 250V)	
⚠F2	1-532-203-00	FUSE (T2.0A 250V)	
FL601	1-517-399-11	INDICATOR TUBE, FLUORESCENT	
IC201	8-759-502-32	IC SI-18752N	
IC251	8-759-502-32	IC SI-18752N	
IC501	8-759-502-32	IC SI-18752N	
⚠T901	1-427-781-11	TRANSFORMER, POWER (AEP, UK, EE, CIS)	
⚠T901	1-429-099-11	TRANSFORMER, POWER (E, AUS)	
		ACCESSORIES & PACKING MATERIALS	
*	4-973-307-01	CUSHION (UPPER)	
*	4-973-650-01	CUSHION (LOWER)	
		HARDWARE LIST	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
#3	7-682-560-04	SCREW +BVTT 4X6 (S)	

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